MICHELIN® TRUCK TIRE DATA BOOK

TRUCK TIRES, RV TIRES, COMMERCIAL LIGHT TRUCK TIRES, AND RETREADS

www.michelintruck.com

20th Edition

MICHELIN

If you require information for MICHELIN ® products not listed in this data book, please contact your Michelin representative or your Michelin dealer.

Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.

Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions. Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

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PART 1: SAFETY – MOUNTING THE TIRE

IMPORTANT: BE SURE TO READ THIS SAFETY INFORMATION.

Make sure that everyone who services tires or vehicles in your operation has read and understands these warnings.

SERIOUS INJURY OR DEATH CAN RESULT FROM FAILURE TO FOLLOW SAFETY WARNINGS.

No matter how well any tire is constructed, punctures, impact damage, improper inflation, improper maintenance, or service factors may cause tire failure creating a risk of property damage and serious or fatal injury. Truck operators should examine their tires frequently for snags, bulges, excessive treadwear, separations, or cuts. If such conditions appear, demount the tire and see a truck dealer immediately.

The US Department of Labor Occupational Safety and Health Administration (OSHA) provides regulations and publications for safe operating procedures in the servicing of wheels. Please refer to OSHA Standard 29 CFR Part 1910.177 (Servicing Multi-Piece and Single Piece Rim Wheels).

Specifically, note that the employer shall provide a program to train all employees who service wheels in the hazards involved in servicing those wheels and the safety procedures to be followed. The employer shall ensure that no employee services any wheel unless the employee has been trained and instructed in correct procedures of servicing the type of wheel being serviced, and shall establish safe operating procedures for such service.

Michelin provides the following information to further assist employers to comply with that initiative.

⚠WARNING

Tire and wheel servicing can be dangerous and must be done only by trained personnel using proper tools and procedures. Failure to read and comply with all procedures may result in serious injury or death to you or others.

⚠WARNING

Re-inflation of any type of tire and wheel assembly that has been operated in a run-flat or underinflated condition (80% or less of recommended operating pressure) can result in serious injury or death. The tire may be damaged on the inside and can explode during inflation. The wheel may be worn, damaged, or dislodged and can explosively separate.

Refer to USTMA Tire Information Service Bulletin on potential "zipper ruptures" – TISB Volume 33, Number 6.

USTMA (U.S. Tire Manufacturers Association) recommends that any tire suspected of having been run underinflated and/or overloaded must remain in the safety cage, be inflated to 20 psi OVER maximum pressure marked on the sidewall, and then be inspected. Do not exceed the maximum inflation pressure for the wheel.

Be sure to reduce pressure to regular operating pressure before placing back in service if the tire has been deemed serviceable.

⚠WARNING

Use of starting fluid, ether, gasoline, or any other flammable material to lubricate, seal, or seat the beads of a tubeless tire can cause the tire to explode or can cause the explosive separation of the tire and wheel assembly resulting in serious injury or death. The use of any flammable material during tire servicing is absolutely prohibited.

⚠WARNING

Any inflated tire mounted on a wheel contains explosive energy. The use of damaged, mismatched, or improperly assembled tire and wheel parts can cause the assembly to burst apart with explosive force. If you are struck by an exploding tire, wheel part, or the blast, you can be seriously injured or killed.

Re-assembly and inflation of mismatched parts can result in serious injury or death. Just because parts fit together does not mean that they belong together. Check for proper matching of all wheel parts before putting any parts together.

Mismatching tire and wheel component is dangerous. A mismatched tire and wheel assembly may explode and can result in serious injury or death. This warning applies to any combination of mismatched components and wheel combinations. Never assemble a tire and wheel unless you have positively identified and correctly matched the parts.

ZIPPER RUPTURES

A fatigue-related damage, with or without a rupture, occurs in the sidewall flex area of steel radial light, heavy, and medium truck tires when it is subjected to excessive flexing or heat. This zipper rupture is a spontaneous burst of compressed gas, and the resulting rupture can range in length anywhere from 12 inches to 3 feet circumferentially around the tire. This is caused by the damage and weakening of the radial steel cables as a result of run-flat, underinflation, or overload. Eventually, the pressure becomes too great for the weakened cables to hold, and the area ruptures with tremendous force.

The USTMA (U.S. Tire Manufacturers Association) states that permanent tire damage due to underinflation and/or overloading cannot always be detected. Any tire known or suspected of having been run at less than 80% of normal recommended operating pressure and/or overloaded, could possibly have permanent structural damage (steel cord fatigue).

The USTMA has issued a revised Tire Industry Service Bulletin for procedures to address zipper ruptures in certain commercial vehicle tires. The purpose of the bulletin is to describe the inspection procedures for identifying potential sidewall circumferential ruptures (also known as "zipper ruptures") on truck/bus tires and light-truck tires of steel cord radial construction. Zipper ruptures can be extremely hazardous to tire repair technicians. Careful adherence to proper repair procedures is crucial.

For more information contact USTMA at info@ustires.org or visit www.USTires.org.

TIRE INSPECTION

Tire inspection should always include a thorough inspection of both sidewalls and inner liner, as this may reveal any potential damage condition that would cause the tire to become scrap. Examine the inner liner for creases, wrinkling, discoloration, or insufficient repairs, and examine the exterior for signs of bumps or undulations, as well as broken cords, any of which could be potential out of service causes. Proper OSHA regulations must be followed when putting any tire and wheel back in service. After the tire has been inflated to 20 psi in a safety cage, it should undergo another sidewall inspection for distortions, undulations, or popping noises indicating a breaking of the steel cords. If this is the case, immediately fully deflate and scrap the tire. If no damage is detected, continue to inflate to the maximum inflation pressure marked on the sidewall. Do not exceed the maximum inflation pressure for the wheel. Any tire suspected of having been run underinflated and/or overloaded must remain in the safety cage, be inflated to 20 psi OVER maximum pressure marked on the sidewall, and then be inspected.

Be sure to reduce tire pressure to regular operating pressure before placing back in service if the tire has been deemed serviceable.

AFTER YOU MOUNT THE MICHELIN® X ONE® TIRE ON THE WHEEL, YOU MUST CAGE IT!

PART 2: MOUNTING AND DEMOUNTING TUBELESS TIRES

In order for a tire to perform properly, it must be mounted on the correct size wheel. The following are general instructions for mounting and demounting Michelin tubeless tires, including the MICHELIN® X One® tires.

Specifics for 19.5" wheels are detailed in the Mounting Tubeless Tire section (Page 3-4). For additional detailed instructions on mounting and demounting truck tires on particular types of wheels, refer to the instructions of the wheel manufacturer or the RMA wall charts.

TUBELESS TIRE MOUNTING/ DEMOUNTING USING A MOUNTING MACHINE

There are several tire changing machines available for the mount and demount procedure. Consult the manufacturer's user manual for the machine you are using as each operates differently. Full lubrication of the wheel and **BOTH** tire beads is still required. Inflation process requirements remain the same.

DIRECTIONAL TIRES

Truck tires featuring directional tread designs have arrows molded into the shoulder/edge of the outer ribs to indicate the intended direction of tire rotation. It is important, to maximize tire performance, that directional tires be mounted correctly on wheels to ensure that the directionality is respected when mounted on the vehicle.

For example, when mounting directional drive tires on a set of 8 wheels, use the drop centers as a reference. Four tires should be mounted with the arrows pointing to the left of the technician and four tires with the arrows pointing to the right. This ensures that when the assemblies are fitted onto the vehicle that all tires can be pointed in the desired direction of rotation.

Directional steer tires should be mounted in a similar fashion, one each direction, to ensure both are pointed forward.

Once directional tires are worn greater than 50%, there is generally no negative effect of running them in a direction opposite to the indicated direction of rotation.

Operating directional tires from new to 50% worn in the opposite direction of that indicated on the tire will result in the premature onset of irregular wear, excessive noise levels, and significantly reduced tread life.

SELECTION OF PROPER COMPONENTS AND MATERIALS

1. All tires must be mounted on the proper wheel as indicated in the specification tables. For complete tire specifications, refer to application specific data books.
2. Make certain that wheel is proper for the tire dimension.
3. Always install new valve cores and metal valve caps containing plastic or rubber seals.
4. Always replace the rubber valve stem on a 16" through 19.5" wheel.
5. Always use a safety device such as an inflation cage or other restraining device that will constrain all wheel components during the sudden release of the tire pressure of a single piece wheel. Refer to current OSHA standards for compliance.

⚠WARNING

It is imperative to follow all of the following inflation safety recommendations. Failure to do so will negate the safety benefit of using an inflation cage or other restraining device and can lead to serious injury or death.

INFLATION SAFETY RECOMMENDATIONS

1. Do not bolt the inflation cage to the floor or nor add any other restraints or accessories.
2. The inflation cage should be placed at least 3 feet from anything, including a wall.
3. Never stand over, or in front of a tire when inflating.
4. Always use a clip-on chuck and a sufficiently long air hose between the in-line gauge and the chuck to allow the service technician to stand outside the trajectory zone when inflating.
   Trajectory zone means any potential path or route that a wheel component may travel during an explosive separation or the sudden release of the tire pressure, or an area at which the blast from a single piece wheel may be released. The trajectory may deviate from paths that are perpendicular to the assembled position of the wheel at the time of separation or explosion. See Rubber Manufacturers Association Tire Information Service Bulletin Volume 33, Number 4 for more information.

Note: Safety cages, portable and/or permanent, are also available for inflation of the MICHELIN® X One® tire assemblies.

TIRE AND WHEEL LUBRICATION

It is essential that an approved tire mounting lubricant be used. Preferred materials for use as bead lubricants are vegetable based and mixed with proper water ratios per manufacturer's instructions. Never use antifreeze, silicones, or petroleum-base lubricants as this will damage the rubber. Lubricants not mixed to the manufacturer's specifications may have a harmful effect on the tire and wheel.

The lubricant serves the following three purposes:

- Helps minimize the possibility of damage to the tire beads from the mounting tools.
- Helps ease the insertion of the tire onto the wheel by lubricating all contacting surfaces.
- Assists proper bead seating (tire and wheel centering) and helps to prevent eccentric mountings.

The Michelin product, Tiger Grease 80, MSPN 25817, is specifically formulated for commercial truck tire mounting. It can be obtained through any authorized Michelin Truck Tire dealer or by contacting Michelin Consumer Care (1-888-622-2306).

Apply a clean lubricant to all portions of the tire bead area and the exposed portion of the flap using sufficient but sparing quantities of lubricant. **Also, lubricate the entire rim surface of the wheel. Avoid using excessive amounts of lubricant, which can become trapped between the tire and tube and can result in tube damage and rapid tire pressure loss.**

NOTICE

It is important that tire lubricant be clean and free of dirt, sand, metal shavings, or other hard particles.

NOTICE **Avoid using excessive amounts of lubricants.**

NOTICE **Dry mounting should be avoided. Use approved lubricants.**

The following practice is recommended:

a. Use a fresh supply of tire lubricant each day, drawing from a clean supply source and placing the lubricant in a clean portable container.
b. Provide a cover for the portable container and/or other means to prevent contamination of the lubricant when not in use. For lubricants in solution, we suggest the following method that has proven to be successful in helping to minimize contamination and prevent excess lubricant from entering the tire casing: provide a special cover for the portable container that has a funnel-like device attached. The small opening of the funnel should be sized so that when a swab is inserted through the opening into the reserve of lubricant and then withdrawn, the swab is compressed, removing excess lubricant. This allows the cover to be left in place providing added protection. A mesh false bottom in the container is a further protection against contaminants. The tire should be mounted and inflated promptly before lubricant dries.

PREPARATION OF WHEELS AND TIRES

1. Always wear safety goggles or face shields when buffing or grinding wheels.
2. Inspect wheel assemblies for cracks, distortion, and deformation of flanges. Using a file and/or emery cloth, smooth all burrs, welds, dents, etc. that are present on the tire side of the wheel. Inspect the condition of bolt holes on the wheels. Rim flange gauges and ball tapes are available for measuring wear and circumference of aluminum wheels.
3. Remove rust with a wire brush and apply a rust inhibiting paint on steel wheels. The maximum paint thickness is

0.0035" (3.5 mils) on the disc face of the wheel.
4. Remove any accumulation of rubber or grease that might be stuck to the tire, being careful not to damage it. Wipe the beads down with a dry rag.

MOUNTING TUBELESS

1. Inspect the condition of the bolt holes on the wheels, and look for signs of fatigue. Check flanges for excessive wear by using the wheel manufacturer's flange wear indicator. NEVER WELD A CRACKED WHEEL!
2. Replace valve core, and inspect valve stem for damage and wear. Michelin recommends always replacing the valve stem and using a new valve stem grommet. Ensure valve stem is installed using the proper torque value. 80-125 in/lbs (7-11 ft/lbs) for standard aluminum wheels and 35-55 in/lbs (3-5 ft/lbs) for standard tubeless steel wheels. Ensure the valve core is installed using the proper torque value of 1.5 – 4 in/lbs. To prevent galvanic corrosion on aluminum wheels, lubricate the threads and O-ring of the valve stem with a non-waterbased lubricant before installation.
3. Apply the tire and wheel lubricant to all surfaces of the wheel and bead area of the tire. When applying lubricant to the wheel, lubricate the entire rim surface of the wheel from flange to flange. The tire should be mounted and inflated before the lubricant dries.
4. With short ledge up, lay the tire over the wheel opposite the valve side and work it on with proper tubeless tire tools, making full use of the drop center well. Drop center wheels are typically designed with an off-set drop center to accommodate wheel width and brake clearance. This creates a "short side" and a "long side" on the wheel. (Some drop center wheels are designed with a symmetric wheel profile facilitating tire mounting from either side.) It is imperative that the tire always be mounted and dismounted only from the short side. Failure to do this will likely result in damaged tire beads that could eventually cause rapid gas loss due to casing rupture. This is particularly important on 19.5 inch RW (reduced well) aluminum wheels which, contrary to the norm, have their drop center located close to the disc side. Do not use 19.5 x 7.50 wheel for the 305/70R19.5 tire size.

> ***NOTICE***
>
> All 19.5 inch tubeless wheels should be mounted from the short side. Care should be taken to ensure that any internal monitoring system molded in the tire or on the wheel is not damaged or dislodged during this service.

5. **Do not use any kind of hammer.** Severe inner liner damage may occur resulting in sidewall separation and tire destruction. Use only proper mounting levers.

> ***NOTICE***
>
> **Do Not use a Duck Billed Hammer during the mounting process to strike the tire.**

6. The MICHELIN® X One® tire is designed to replace dual tires on the drive and trailer positions of tandem over the road vehicles, and the tires must be mounted on 22.5 x 14.00" size wheels. Position the tire and wheel assembly so the valve stem is facing outward, away from the vehicle.

INFLATION OF TUBELESS TIRES

1. Lay tire and wheel assembly horizontally and inflate to no more than 5 psi to position the beads on the flanges. **OSHA dictates no more than 5 psi outside the cage to seat the beads.**

> **⚠WARNING**
>
> **Re-inflation of any type of tire and wheel assembly that has been operated in a run-flat or underinflated condition (less than 80% of normal recommended operating pressure) can result in serious injury or death. The tire may be damaged on the inside and can explode during inflation. The wheel parts may be worn, damaged, or dislodged and can explosively separate.**

2. To complete the seating of the beads, place the assembly in an OSHA (Occupational Safety and Health Administration) compliant inflation restraining device (i.e. safety cage) and inflate to 20 psi. Check the assembly carefully for any signs of distortion or irregularities from run-flat. If run-flat is detected, scrap the tire.
3. If no damage is detected, continue to inflate to the maximum pressure marked on the sidewall. USTMA (U.S. Tire Manufacturers Association) recommends that any tire suspected of having been underinflated and/or overloaded must remain in the safety cage at 20 psi over the maximum pressure marked on the sidewall. Do not exceed the maximum inflation pressure for the wheel. USTMA requires that all steel sidewall tires are inflated without a valve core.
4. Ensure that the guide rib (GG Ring/mold line)is positioned concentrically to the rim flange with no greater than 2/32" of difference found circumferentially. Check for this variation by measuring at four sidewall locations (12, 3, 6, 9 o'clock). If bead(s) did not seat, deflate tire, re-lubricate the bead seats and re-inflate.
   Note: As a general guide in vibration analysis, the 30/60/90 rule may apply:
   .030-.060 (1/32 to 2/32 inch) = No action is required. Limited possibility for vibration exists, and this range maximizes the ability to balance properly.
   .061-.090 (2/32 to 3/32 inch) = Corrective action would be to perform the 3 R's, after deflating the tire.
   – Rotate the tire on the wheel
   – Re-lubricate the tire and wheel (ensure the wheel is very clean)
   – Re-inflate ensuring your initial inflation is with the tire lying horizontal (3-5 psi max)
   >.090 (>3/32 inch) = Perform 3 R's if mismount is indicated; however, when the reading is this high, it usually requires checking runout on these component parts: wheels/hubs/drums/wheel bearings.

5. After beads are properly seated, place the tire in safety cage and inflate assembly to maximum pressure rating shown on the sidewall, then reduce to operating pressure. Check valve core for leakage, then install suitable valve cap. Consider the use of inflate-thru or double seal valve caps for easier pressure maintenance.

DEMOUNTING OF TUBELESS TIRES

1. If still fitted on the vehicle, completely deflate the tire by removing the valve core. In the case of a dual assembly, completely deflate both tires before removing them from the vehicle (OSHA requirement). Run a wire or a pipe cleaner through the valve stem to ensure complete deflation.
2. With the tire assembly lying flat (after deflating the tire), break the bead seat of both beads with a bead breaking tool. Do not use hammers of any type to seat the bead. Striking a wheel assembly with a hammer of any type can damage the tire or wheel and endanger the installer. **Use a steel duck bill hammer only as a wedge.** Do not strike the head of a hammer with another hard faced hammer – use a rubber mallet.
3. Apply the vegetable-based lubricant to all surfaces of the bead area of the tire.
4. Beginning at the valve, remove the tire from the wheel. Starting at the valve will minimize chances of damaging the valve assembly. Make certain that the rim flange with the tapered ledge that is closest to the drop center is facing up. Insert the curved ends of the tire irons between the tire and rim flange. Step forward into the drop center and drop the bars down, lifting the tire bead over the rim flange. Hold one tire iron in position with your foot. Pull the second tire iron out and reposition it about 90 degrees from the first iron. Pull the second tire iron towards the center of the wheel. Continue to work tools around wheel until first bead is off the wheel.
5. Lift the assembly, place and rotate the tire iron to lock on the back rim flange, allow the tire to drop, and with a rocking motion remove the tire from the wheel.

PART 3: MOUNTING AND DEMOUNTING TUBE-TYPE TIRES

A tire cannot perform properly unless it is mounted properly on the correct size wheel. The following are general instructions for demounting and mounting MICHELIN® tube-type tires. For detailed instructions on mounting and demounting truck tires on particular types of wheels, refer to the instructions of the wheel manufacturer or the USTMA (U.S. Tire Manufacturers Association) wall charts.

⚠WARNING

Do not reinflate any tires that have been run underinflated or flat without careful inspection for damage. If run-flat damage is detected, scrap the tire. A tire is considered run-flat if it is found to be less than 80% of normal recommended operating pressure. This can result in serious injury or death. The tire may be damaged on the inside and can explode during inflation. The wheel parts may be worn, damaged, or dislodged and can explosively separate.

SELECTION OF PROPER COMPONENTS AND MATERIALS

1. All tires must be mounted with the proper MICHELIN® tube and flap (if required) and wheel as indicated in the specification tables on Page 135. For complete tire specifications, refer to application specific data books.
2. Make certain that wheel components are properly matched and of the correct dimensions for the tire.
3. Always fit a new MICHELIN® tube in a new mounting. Since a tube will exhibit growth in size through normal use, an old tube used in a new mounting increases the possibility of tube creasing and chafing, possibly resulting in failure.
4. Always install a new flap in a new mounting. A flap, through extended use, becomes hard and brittle. After a limited time, it will develop a set to match the tire and wheel in which it is fitted. Therefore, it will not exactly match a new tire and wheel combination.
5. Always install new valve cores and metal valve caps containing plastic or rubber seals. For tires requiring O-rings, be sure to properly install a new silicone O-ring at every tire change.
6. Always use a safety device such as an inflation cage or other restraining device that will constrain all wheel components during an explosive separation of a multi-piece wheel, or during the sudden release of the contained air of a single piece wheel that is in compliance with OSHA (Occupational Safety and Health Administration) standards.

⚠WARNING

It is imperative to follow all of the following inflation safety recommendations. Failure to do so will negate the safety benefit of using an inflation cage or other restraining device and can lead to serious injury or death.

INFLATION SAFETY RECOMMENDATIONS

1. Do not bolt the inflation cage to the floor or nor add any other restraints or accessories.
2. The inflation cage should be placed at least 3 feet from anything, including a wall.
3. Never stand over, or in front of a tire when inflating.
4. Always use a clip-on chuck and a sufficiently long air hose between the in-line gauge and the chuck to allow the service technician to stand outside the trajectory zone when inflating.
   Trajectory zone means any potential path or route that a wheel component may travel during an explosive separation or the sudden release of the tire pressure, or an area at which the blast from a single piece wheel may be released. The trajectory may deviate from paths that are perpendicular to the assembled position of the wheel at the time of separation or explosion. See Rubber Manufacturers Association Tire Information Service Bulletin Volume 33, Number 4 for more information.

Note: Safety cages, portable and/or permanent, are also available for inflation of the MICHELIN® X One® tire assemblies.

TIRE AND WHEEL LUBRICATION

It is essential that an approved tire mounting lubricant be used. Preferred materials for use as bead lubricants are vegetable based and mixed with proper water ratios per manufacturer's instructions. Never use antifreeze, silicones, or petroleum-base lubricants as this will damage the rubber. Lubricants not mixed to the manufacturer's specifications may have a harmful effect on the tire and wheel.

The lubricant serves the following three purposes:

- Helps minimize the possibility of damage to the tire beads from the mounting tools.
- Helps ease the insertion of the tire onto the wheel by lubricating all contacting surfaces.
- Assists proper bead seating (tire and wheel centering) and helps to prevent eccentric mountings.

The Michelin® product, Tigre Grease 80, MSPN 25817, is specifically formulated for commercial truck tire mounting. It can be obtained through any authorized Michelin Truck Tire dealer or by contacting Michelin Consumer Care (1-888-622-2306).

Apply a clean lubricant to all portions of the tire bead area and the exposed portion of the flap using sufficient but sparing quantities of lubricant. **Also, lubricate the entire rim surface of the wheel. Avoid using excessive amounts of lubricant, which can become trapped between the tire and tube and can result in tube damage and rapid tire pressure loss.**

NOTICE

It is important that tire lubricant be clean and free of dirt, sand, metal shavings, or other hard particles.

NOTICE **Avoid using excessive amounts of lubricants.**

NOTICE **Dry mounting should be avoided. Use approved lubricants.**

CAUTION: It is important that tire lubricant be clean and free of dirt, sand, metal shavings, or other hard particles. The following practice is recommended:

a. Use a fresh supply of tire lubricant each day, drawing from a clean supply source and placing the lubricant in a clean portable container.
b. Provide a cover for the portable container and/or other means to prevent contamination of the lubricant when not in use. For lubricants in solution, we suggest the following method, which has proven to be successful in helping to minimize contamination and prevent excess lubricant from entering the tire casing: provide a special cover for the portable container that has a funnel-like device attached. The small opening of the funnel should be sized so that when a swab is inserted through the opening into the reserve of lubricant and then withdrawn, the swab is compressed, removing excess lubricant. This allows the cover to be left in place providing added protection. A mesh false bottom in the container is a further protection against contaminants. The tire should be mounted and inflated promptly before lubricant dries.

PREPARATION OF WHEELS AND TIRES

1. Always wear safety goggles or face shields when buffing or grinding wheels.
2. Inspect wheel assemblies for cracks, distortion, and deformation of flanges. Using a file and/or emery cloth, smooth all burrs, welds, dents, etc. that are present on the tire side of the wheel. Inspect the condition of bolt holes on the wheels. Rim flange gauges and ball tapes are available for measuring wear and circumference of aluminum wheels.
3. Remove rust with a wire brush and apply a rust inhibiting paint on steel wheels. The maximum paint thickness is 0.0035" (3.5 mils) on the disc face of the wheel.
4. Remove any accumulation of rubber or grease stuck to the tire, being careful not to damage it. Wipe the beads down with a dry rag.

STORAGE

Serious problems can occur with tube-type tires when they are mounted with water trapped between the tire and tube. Under pressurization, the liquid can pass through the inner liner and into the casing plies. This can result in casing deterioration and sudden tire failure. Most failures of this nature are due to improper storage. This is a particular problem with tube-type tires because of the difficulty in detecting the water, which has collected between the tire and tube.

⚠WARNING

Re-assembly and inflation of mismatched parts can result in serious injury or death. Just because parts fit together does not mean they belong together. Check for proper matching of all wheel parts before putting any parts together. Inspect the tire and the wheel for any damage that would require them to be placed out of service.
Mismatching tire and wheel components is dangerous. A mismatched tire and wheel assembly may explode and can result in serious injury or death. This warning applies to any combination of mismatched components and wheel combinations. Never assemble a tire and wheel unless you have positively identified and correctly matched the parts.

MOUNTING TUBE-TYPE TIRE

1. Insert the proper size MICHELIN® tube into the tire and partially inflate (3 psi) to round out the tube (with larger sizes it may be necessary to use bead spreaders – see below for mounting instructions).
2. Insert the valve through the flap valve hole. (Make sure the reinforced patch that is directly over the flap valve hole is facing outwards.) Then insert the remainder of the flap into the tire.
3. Check the flap wings to ensure against folding. This is easily accomplished by placing your hand into one tire side, then the other, and then running your hand along the entire flap wing.
4. Inflate the tube until the flap is secured against the tire wall and the beads start to spread apart, making sure not to exceed 3 psi.
5. Apply a proper tire lubricant to both beads, exposed flap, and fully to the rim. Make sure that excess lubricant does not run down into the tire.
6. Lay the wheel flat on the floor with the gutter side up. Place tire, tube, and flap on the wheel, taking care to center the valve in the slot.
7. For two-piece wheels, place the side ring on the rim base so that the ring split is opposite the valve stem by placing the leading end (end without the notch) of the ring into the groove in the rim, and progressively walk the side ring into place. Ensure the ring is fully seated in the gutter.
8. For three-piece wheels, place the side ring on the rim base and stand on the ring to position it below the gutter rim base. Snap the leading end (end without the notch) of the lock ring into the gutter of the rim base, and progressively walk the lock ring into place. Ensure the ring is fully seated in the gutter.

MOUNTING OF TUBE-TYPE TIRES USING MANUAL SPREADERS

1. Follow Steps 1 through 3 of the "Mounting of Tube-Type Tires." However, before inserting the flap into the tire, position two bead spreaders in the following manner:
   a. Place the first at a 90° angle to the valve. (Flap is positioned between the spreader and the tube.)
   b. Place the second directly opposite the first.
   c. Spread the beads and insert the flap.
   d. Close the beads, remove spreaders.
2. Follow Steps 4 through 8 of the "Mounting of Tube-Type Tires."

MOUNTING OF TUBE-TYPE TIRES USING AUTOMATIC SPREADERS

1. Spread the tire beads.
2. Inflate the tube to approximately 3 psi.
3. Insert the tube into the tire.
4. Insert the valve through the flap valve hole. (As mentioned, the flap reinforced valve area must face outwards.) Insert the remainder of the flap into the tire.
5. Close the beads.
6. Apply a proper tire lubricant to the inside and outside surfaces of both beads and to that portion of the flap that appears between the beads. Make sure that excess lubricant does not run down into the tire.
7. Follow Steps 4 through 8 of the "Mounting of Tube-Type Tires."

INFLATION OF TUBE-TYPE TIRES

1. An inflation line with an extension (30" minimum), in-line gauge, and a clip-on valve chuck should be used for inflation. Remove valve core and lay the assembly flat on the ground. Using an approved restraining device, inflate partially to seat beads to no more than 3 psi. While the tire is still in the restraining device, make sure all wheel components are centered and locked properly. If not, the tire must be deflated, broken down, relubricated and reinflated. Do not attempt to seat the lock ring by means of a hammer.
2. Deflate the tire by removing the inflation line. This is to allow the tube to relax, thus, eliminating any wrinkles or uneven stretching that may have occurred during primary inflation.
3. With the valve core still removed, place the tire and wheel assembly into an approved safety cage or other approved restraining device meeting OSHA (Occupational Safety and Health Administration) standards, and reinflate the tire to the pressure shown on the sidewall in order to ensure proper bead seating. Then adjust the tire to the proper operating pressure. Never stand over a tire or in front of a tire when inflating. Always use a clip-on valve chuck with an in-line valve with a pressure gauge or a presettable regulator and a sufficient length of hose between the clip-on chuck and in-line valve (if one is used) to allow the employee to stand outside the trajectory path when inflating. RMA (Rubber Manufacturers Association) requires that all steel sidewall radial tires are inflated without a valve core.
4. Reinspect the assembly for proper positioning and seating of all components.
5. Check for leaks, and install a suitable valve cap.

DEMOUNTING TUBE-TYPE TIRE

1. Before loosening any nuts securing the wheel assembly to the vehicle, remove the valve core and deflate completely. If working on a dual assembly, completely deflate both tires. Run a wire or pipe cleaner through the valve stem to ensure complete deflation. This is to prevent a possible accident.
2. Remove the tire and wheel assembly from the vehicle and place on the floor with the side ring up.
3. Run a wire or pipe cleaner through the valve stem to clear the valve stem.
4. Apply lubricant to all surfaces of the bead area of the tire. Use the duck bill hammer, with the rubber mallet as a wedge, or a slide hammer.
5. For two-piece wheels, remove the side ring by pushing the tire bead down. Insert the tapered end of the rim tool into the notch and pry the side ring out of the gutter. Pry progressively around the tire until the side ring is free of the gutter.
6. For three-piece wheels, remove the lock ring by pushing the side rings and the tire bead down. Insert the tapered end of the rim tool into the notch near the split in the lock ring, push the tool downward, and pry the lock ring outward to remove the lock ring from the gutter. Use the hooked end of the rim tool progressively around the tire to complete the removal, then lift off the side ring.
7. Turn the assembly over.
8. Unseat the remaining tire bead from the rim, and lift the rim from the tire.

LIGHT TRUCK TIRE WARRANTY
STANDARD LIMITED WARRANTY

WHAT'S COVERED

All MICHELIN® Light Truck Tires have a Standard Manufacturer's Limited Warranty, which covers defects in workmanship and materials for the life of the original usable tread, or for 6 years from date of purchase, whichever occurs first. See Tire Dealer for details.

NOTES AND WARNING

NOTE: All comparisons are between MICHELIN® tires within this category.

(1) Sizes listed do not include P-metric and floatation dimensions. For full range of products refer to "MICHELIN® Data Book" No. MDL41080.

(2) Exceeding the lawful speed limit is neither recommended nor endorsed.

(3) Tire section widths and overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.

(4) Range of approved wheel widths. For specific wheel profiles and measuring wheel, refer to "MICHELIN® Data Book" No. MDL41780.

MICHELIN® tires and tubes are subject to a continuous development program. Michelin North America, Inc. reserves the right to change product specifications at any time without notice or obligation.

⚠WARNING

Never mount a 16" diameter tire on a 16.5" wheel.

⚠WARNING

Serious or fatal injury may result from tire failure due to underinflation/overinflation/overloading. To ensure correct pressure and vehicle load, refer to vehicle owner's manual or tire information placard in the vehicle. Serious injury or death may result from explosion of tire/wheel assembly due to improper mounting. Only tire professionals should mount tires, and they should never inflate beyond 40 psi to seat the beads. See Tire Dealer for proper mounting. Before mixing types of tires in any configuration on any vehicle, be sure to check the vehicle owner's manual for recommendations.

WHICH MICHELIN® TIRE?

TREAD PATTERN DESIGNATION

Michelin uses specific numbers or letters to identify different types of tread patterns or casing construction.

X® MULTI ENERGY D

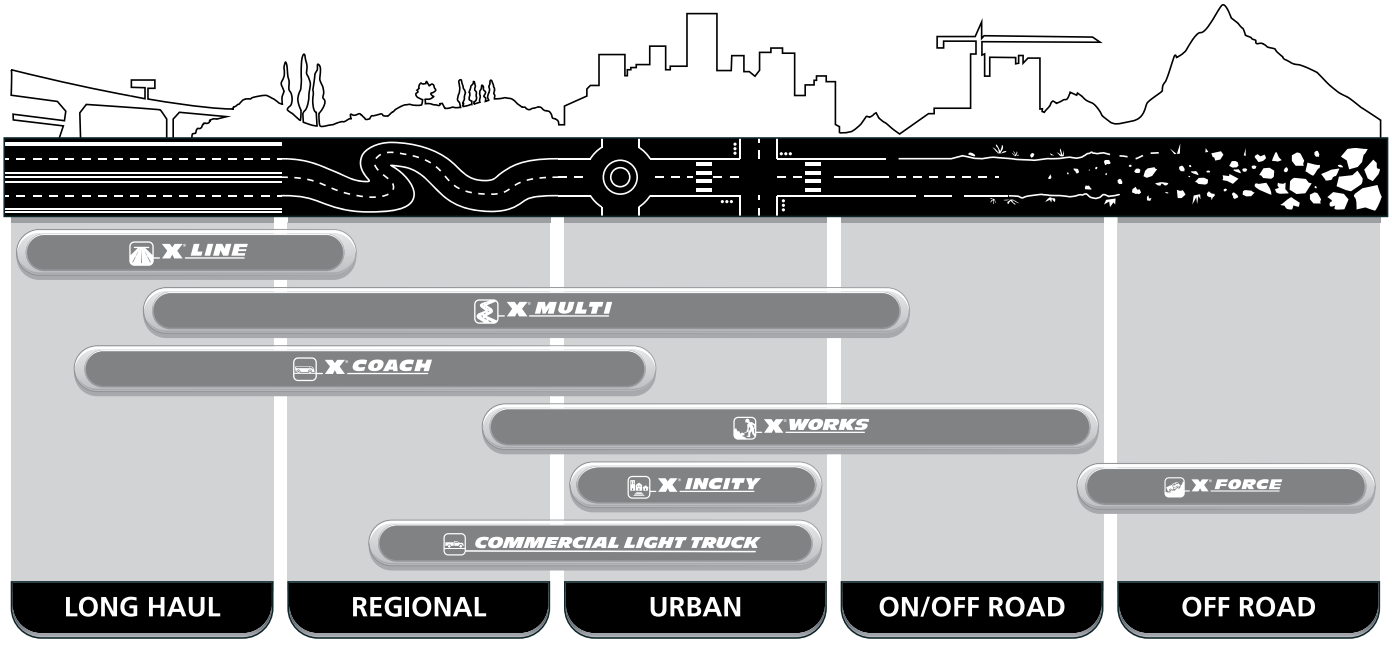
Application — Benefit — Position

For example:

MICHELIN® Radial	X = MICHELIN® Radial
Prefix	X One® = Wide Single Tire Replacing 2 Traditional Duals
Application*	A = X® LINE = Highway Applications E = X® MULTI = Regional Applications Y = X® WORKS = 80% On-Road Use, 20% Off-Road Use L = X® FORCE = 20% On-Road Use, 80% Off-Road Use U = X® INCITY = Urban Use X® COACH = Coach and Recreational Vehicle Use
Benefit	ENERGY = Fuel Efficient GRIP = All Season Grip ✪ = Anti-chip / Cut-resistant Compound M/S = Mud and Snow S = Severe Service + = Enhanced Version
Position	D = Drive T = Trailer Z = All Position F = Front (Steer)
Index	Number at the end of the designation used to denote product evolution or attributes.

* A, E, Y, L, U = Traditional Application Designations; X® LINE, X® MULTI, X® WORKS, X® FORCE, X® INCITY, X® COACH = New Application Designations; Michelin will progressively replace the traditional application designations with the new ones.

Federal Motor Carrier Safety Regulations, 9 C.F.R. § 395.75 (d), specify that "no bus shall be operated with regrooved, recapped or retreaded tires on the front wheels."



PRODUCT NAMING AND SEGMENTATION

The specific tread design used should only be considered after the vehicle type and user vocation has been examined. There are several categories of tire service applications:

SEGMENT	APPLICATION (1) NAME		PICTOGRAMS	APPLICATIONS	VOCATIONS
Line Haul	A	X® LINE		Heavy loads and high speeds for extended periods of time. Primarily interstate or divided highway.	• Truckload Carrier • Refrigerated
Regional	E	X® MULTI		Regional is medium to heavy loads, frequently on 2-lane roads. Vehicles generally return to home base at night. Emerging Super Regional application combines driving conditions seen in Line Haul and Regional applications.	• LTL Dry Van • Parcel • Food & Beverage • Pick-up & Delivery
On/Off Road	Y	X® WORKS		Heavy loads and slower speeds, operating on a mixture of improved secondary and aggressive road surface.	• Construction and Mining • Forestry and Logging • Oil Field
Off Road	L	X® FORCE		Very heavy loads normally on poor or unimproved surfaces.(2)	• Forestry and Logging • Oil Field
Urban	U	X® INCITY		Stop-and-go delivery ... service within a limited radius – metro and suburban.	• Urban Buses • Sanitation and Refuse • Pick-Up & Delivery
Coach and Recreational		X® COACH		Coaches and recreational vehicles	• Highway & Regional Coach • RV

D = Drive Positions, T = Trailer Positions, Z = All-Wheel Positions

(1) A, E, Y, L, U = Traditional Application Designations. X® LINE™, X® MULTI™, X® WORKS™, X® FORCE™, X® INCITY™, X® COACH™ = New Application Designations. Michelin will progressively replace the traditional application designations with the new ones.

(2) Off Road Tires can also be used On Road if DOT is present.

PROPER APPLICATION

URBAN TIRES:
U or X® INCITY

The tires with the **"U"** or **"INCITY"** designation are designed and optimized for **urban applications** and should not be used in non-urban/suburban applications including but not limited to, line haul and RV/motorhomes/coaches. These aforementioned applications may subject the tires to continuous use over an extended period of time. This could lead to heat build up and may cause the tire to fail prematurely and/or suddenly.

ON/OFF ROAD TIRES:
Y or X® WORKS and L or X® FORCE

The tires with "Y" or "X® WORKS" and "L" or "X® FORCE" as the third character in the tread designations are designed and optimized for on/off road applications and are speed restricted. These tires should not be used in applications that operate the tires continuously on highway over an extended period of time or at speeds that exceed the speed rating of the tire. This could lead to heat build up and cause premature or sudden tire failure.

Tires with the "Y" or "X® WORKS"designation are for applications expected to be 80% On-road use and 20% Off-road use. They have a maximum speed of 65 - 68 mph depending on the tire.

Tires with the "L" or "X® FORCE" designation are for applications expected to be 20% On-road use and 80% Off-road use. Some of the "L" or "X® FORCE" designated tires have a maximum speed of 50 mph while others have maximum speeds of 56, 62 and of 68 mph.

The Tire and Rim Association (TRA) permits operating a 65 mph rated tire at higher speeds with a reduced load and increased inflation. No such permission is granted by TRA for tires with speed rating rated below 65 mph.

Always refer to the MICHELIN® Truck Tire Data Book (MWL40731) or www.michelintruck.com and match the tire to the application when making tire selections.

MICHELIN®
TRUCK TIRES

MICHELIN

PRODUCT AVAILABILITY

LINE HAUL										
Size	Load Range	Tread Name	Smartway® Verified	Catalog Number	Tread Depth 32nd	Wheel Position			Directional	RV Use
						AWP	Drive	Trailer		
245/70R17.5	J	XTA2 ENERGY		78370				■		
265/70R19.5	H	X Line Energy T 19.5		40936				■		
11R22.5	G	X Line Energy D	■	35887			■			
	G	X Line Energy T	■	92005	12			■		
	G	X Line Energy Z	■	03363	19	■			■	■
	G	XDA5+		14003	30		■			
	G	XDN2		72805	27		■			
	H	X Line Energy Z	■	06697	19	■			■	■
	H	XDN2		64321	27		■			
	H	XDS2		05359	26		■		■	
12R22.5	H	XDN2		51753			■			
	H	XDS		62208	26		■		■	
235/80R22.5	G	XRV		87511		■				■
255/80R22.5	G	XRV		59634		■				■
275/70R22.5	J	X Multi Z - 275		31513		■				■
275/80R22.5	G	X Line Energy D	■	36859			■			
	G	X Line Energy D+	■	10873	20		■			
	G	X Line Energy T	■	92052	12			■		
	G	X Line Energy Z	■	03885	19	■			■	■
	G	XDA ENERGY+	■	08024	23		■			
	G	XDA5+		61310	30		■			
	G	XDN2		63465	27		■			
	H	X Line Energy Z	■	66205	19	■			■	■
295/60R22.5	J	X Line Energy Z - 295		35378		■				■
295/80R22.5	H	XZA2 ENERGY	■	76807		■				■
305/70R22.5	L	XRV		93499		■				■
315/80R22.5	L	X Line Energy Z Coach		09807		■				■
	L	XDN2 GRIP		04355	28		■		■	
365/70R22.5	L	XZA		52215		■				■
445/50R22.5	L	X One Line Energy D	■	24306			■		■	
	L	X One Line Energy T2	■	75029	12			■	■	
	L	X One Line Grip D	■	55210	27		■			
455/55R22.5	L	X One Line Grip D	■	41721			■			
11R24.5	H	X Line Energy T	■	92448				■		
	H	X Line Energy Z	■	18748	19	■			■	■
	H	XDA5+		97973	30		■			
	H	XDN2		87129	27		■			
	H	XDS2		06613	26		■		■	
275/80R24.5	G	X Line Energy D	■	36992			■			
	G	X Line Energy T	■	92981	12			■		
	G	XDA5+		01376	30		■			
	G	XDN2		75684	27		■			
	H	X Line Energy Z	■	81281	19	■			■	■

PRODUCT AVAILABILITY

OFF ROAD										
Size	Load Range	Tread Name	Smartway® Verified	Catalog Number	Tread Depth 32nd	Wheel Position			Directional	RV Use
						AWP	Drive	Trailer		
365/85R20	J	XZL		56389		■				
395/85R20	J	XZL		54331		■				
24R21	H	XZL		76025		■				

ON/OFF ROAD										
Size	Load Range	Tread Name	Smartway® Verified	Catalog Number	Tread Depth 32nd	Wheel Position			Directional	RV Use
						AWP	Drive	Trailer		
395/85R20	J	XZL+		94675		■				
11R22.5	H	X Works XDY		89725			■		■	
	H	X Works Z		15701	24	■				
12R22.5	H	X Works Z		11073		■				
275/70R22.5	J	XTY2		01658				■		
315/80R22.5	L	X Works XDY		55576			■		■	
	L	X Works Z		64204	23	■				
385/65R22.5	J	XZY3 (wb)		53779		■				
	L	X MULTIWAY HD XZE		26281	19	■				
425/65R22.5	L	XFE (wb) (Steer)		11829		■				
	L	XZY3 (wb)		40321	23	■				
445/65R22.5	L	XZL (wb)		84103		■				
	L	XZY3 (wb)		83691	23	■				
455/55R22.5	M	X One XZY3		11629		■				
11R24.5	H	X Works Grip D		51503			■			
	H	X Works XDY		90022	30		■		■	
	H	X Works Z		78261	24	■				

PRODUCT AVAILABILITY

REGIONAL										
Size	Load Range	Tread Name	Smartway® Verified	Catalog Number	Tread Depth 32nd	Wheel Position			Directional	RV Use
						AWP	Drive	Trailer		
10R17.5	G	XZA 17.5		05008		■				
215/75R17.5	G	X Multi Z - 17.5		25151		■			■	
	H	XTE 2+		68593	15			■		
	J	X Multi T2 - 17.5		37607	15			■		
245/70R17.5	H	X Multi T 17.5		18537				■		
	J	X Multi T2 - 17.5		38670	16			■		
225/70R19.5	G	XDS2 19.5		24975			■			
	G	XZE		91043	17	■				■
245/70R19.5	H	XDS2 19.5		23134			■			
	H	XZE		75997	18	■				■
	J	XTE2		67113	16			■		
265/70R19.5	G	X Multi Z - 19.5	■	75319		■			■	■
	G	XDE2+		95319	20		■		■	
285/70R19.5	H	X Multi D 19.5	■	09733			■		■	
	H	X Multi Z - 19.5	■	31459	16	■			■	■
	J	XTE2		51278	18			■		
10R22.5	G	X Multi D		74441			■			
	G	XZE		99141	21	■				■
11R22.5	G	X Multi D		33502			■			
	G	X Multi Energy D	■	58300	24		■			
	G	XTE		21307	16			■		
	G	XZE 2		78390	22	■				■
	H	X Multi D		80276	28		■			
	H	X Multi Energy Z	■	03168	20	■			■	
	H	XZE 2		67042	22	■				■
12R22.5	H	XZE ★		85335		■				■
255/70R22.5	H	X Multi D		76760			■			
	H	XZE ★		61737	18	■				■
275/80R22.5	G	X Multi D		76710			■			
	G	X Multi Energy D	■	63049	24		■			
	G	XTE		17706	16			■		
	G	XZE 2		55895	22	■				■
	H	X Multi Energy Z	■	26902	20	■			■	
	H	XZE		01637	22	■				■
295/60R22.5	J	X Multi D - 295		20735			■		■	
295/80R22.5	H	X Coach HL Z		31078		■				■
	H	X MultiWay 3D XZE		07719	19	■			■	■
315/80R22.5	L	X MultiWay 3D XZE		24903		■			■	■
385/55R22.5	L	X Multi T2		28644				■		
445/50R22.5	L	X One Multi Energy T	■	33836				■	■	
455/55R22.5	L	X One Multi Energy T	■	47798				■	■	
11R24.5	G	XTE		07025				■		
	G	XZE 2		91867	22	■				■
	H	X Multi D		27287	28		■			
	H	X Multi Energy D	■	61739	24		■			
	H	XZE 2		88507	22	■				■
275/80R24.5	G	XZE 2		75519		■				■

★ With chip and cut resistant tread compound.

PRODUCT AVAILABILITY

URBAN										
Size	Load Range	Tread Name	Smartway® Verified	Catalog Number	Tread Depth 32nd	Wheel Position			Directional	RV Use
						AWP	Drive	Trailer		
11R22.5	H	X InCity Z		13712		■				
275/70R22.5	J	X InCity Z		59714		■				
305/70R22.5	L	X InCity Z		02348		■				
305/85R22.5	J	X InCity Grip D SL		08623			■			
	J	X InCity Z SL		62156	24	■				
315/80R22.5	L	X InCity Energy Z		10182		■				
	L	XZUS 2		77510	23	■				
455/55R22.5	M	X One XZU S		28513		■				

TRUCK TIRES - STEER/ALL POSITION TIRES

X® LINE ENERGY Z

Line Haul & Bus/RV

Our best just got better. The MICHELIN® X LINE ENERGY Z tire is guaranteed to deliver 20% more mileage vs. leading competitor line haul steer tires(1) and 5% better rolling resistance than the MICHELIN® XZA3®+ EVERTREAD® tire(2) it replaces.

- 20% more mileage guaranteed vs leading competitor line haul steer tires.(3)
- 5% better rolling resistance than the ultra-fuel efficient MICHELIN® XZA3®+ EVERTREAD® tire.(4)
- Get more mileage without compromising fuel efficiency with the patent-pending Dual Compound Tread.
- Even wear to the end of tread life due to directional miniature sipes in the groove walls (directional to half life).
- Approved for use on EPA SmartWay® certified equipment and meets California CARB requirements.
- Maximum retreadability backed up with a 3-Retread Manufacturing Limited Casing Guarantee: 3 retreads or 700,000 miles or 7 years for the MICHELIN® X® LINE ENERGY Z tire when retreaded by an authorized Michelin Retread Technologies.

Directional tread

7 Year

7 Year 700,000-MILE
3-RETREAD LIMITED WARRANTY(5)

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5(6)	G	03363	19	75	19.3	489	41.3	1,048	11.2	285	8.25, 7.50	12.5	318	502	6175	105	2800	720	5840	105	2650	720
11R22.5(6)	H	06697	19	75	19.1	486	41.3	1,049	11.2	285	8.25, 7.50	12.5	318	503	6610	120	3000	830	6005	120	2725	830
11R24.5(6)	H	18748	19	75	20.2	513	43.3	1,099	11.3	286	8.25, 7.50	12.5	318	479	7160	120	3250	830	6610	120	3000	830
275/80R22.5(6)	G	03885	19	75	18.7	475	40.1	1,018	11.0	280	8.25, 7.50	12.2	311	517	6175	110	2800	760	5675	110	2575	760
275/80R22.5(6)	H	66205	19	75	18.7	474	40.1	1,018	11.0	280	8.25, 7.50	12.2	311	517	7160	120	3250	830	6610	120	3000	830
275/80R24.5(6)	H	81281	19	75	19.3	491	41.3	1,049	10.7	273	8.25, 7.50	12.2	311	501	6780	120	3075	830	6175	120	2800	830

1. Please see MichelinTruck.com > Reference Materials > Warranties/Guarantees for details.
2. Based on internal rolling resistance tests using ISO 28580 in tire size 275/80R22.5.
3. Please see MichelinTruck.com > Reference Materials > Warranties/Guarantees for details.
4. Based on internal rolling resistance tests using ISO 28580 in tire size 275/80R22.5.
5. 7/7/3 Manufacturer's Limited Casing Warranty: 7 Year or 700,000 Mile or 3-Retread Limited Warranty for MICHELIN® X LINE ENERGY Z when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.
6. Directional tread design.

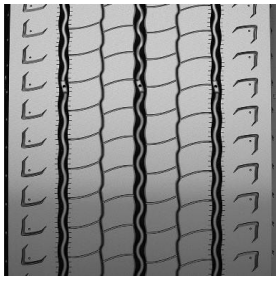
Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - STEER/ALL POSITION TIRES

X® LINE ENERGY Z - 295

Line Haul & Regional

An ultra fuel efficient, all position tire for auto-hauler applications, with enhanced casing durability.



- Infini-Coil™ Belt Technology – Optimizes the shape of the contact patch for longer tread life and strengthens the crown against shocks and impacts.
- Advanced Tensile Technology – Helps to improve the strength of the belt package.
- Shock Pad – An increased layer of protection between the protector ply and the belt package to help absorb the forces of impacts and shocks.
- Better Miles per Gallon – 26% reduction in rolling resistance compared to the MICHELIN® XZA®2 Energy tire.(1)
- Syphon Groove – A new regenerating tread design that at 5/32nds fully exposes two additional circumferential grooves, which increases the ability to evacuate liquid material in later tread life.

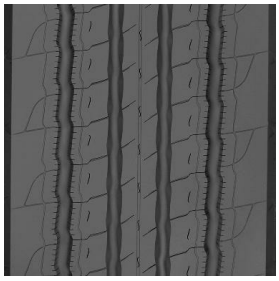
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/60R22.5	J	35378	14	75	16.7	425	36.1	917	11.8	299	9.00(2), 9.75	13.3	338	570	7390	130	3350	900	6780	130	3075	900

1. Michelin internal testing.
2. For further instructions on proper usage of the 295/60R22.5, see Appendix Page xi.

X® LINE ENERGY Z COACH

Line Haul & Bus/RV

Improved fuel-efficient(1), all position service in long distance applications such as Highway Coach.(2)



- The MICHELIN® X® LINE ENERGY Z tire new tread compound generated a 7% reduction in rolling resistance versus the MICHELIN® XZA®2 ENERGY 315/80R22.5 tire.
- Groove Wall Miniature Sipes – Helps fight irregular wear to improve mileage.
- Increased Net Contact Area – 3% greater contact area versus the MICHELIN® XZA®2 ENERGY tire meaning more rubber on the road.
- Zig-Zag Grooves – Improves traction in new and worn tire conditions.
- Full Width Elastic Protector Ply – Helps protect against penetrations, impacts breaks, and shocks for maximum casing durability.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
315/80R22.5(3)	L	09807	17	75	19.6	497	42.3	1,075	12.4	315	9.00, 9.75	13.8	351	491	9090	130	4125	900	8270	130	3750	900

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
3. Not approved for use with 8.25 wheel.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

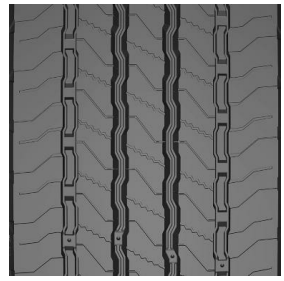
TRUCK TIRES - STEER/ALL POSITION TIRES

X® MULTI Z - 275

Line Haul & Regional & Urban

Improved all-position radial optimized for RV chassis and specialty trailer in regional and line haul applications.

- 15% improvement in rolling resistance for improved wear and fuel savings.(1)
- 9% greater net contact area for improved grip.(2)
- Exceptional traction from zig zag sipe design which delivers outstanding wet grip on slippery surfaces.
- Outstanding resistance to stone damage due to groove bottom protectors as well as angled groove walls to reduce stone retention.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
275/70R22.5	J	31513	18	75	17.6	448	37.8	959	10.9	278	8.25, 7.50	12.2	311	547	6940	131	3150	900	6395	131	2900	900

1. Based on MICHELIN® X® MULTI Z tire versus MICHELIN® XZE2+® tire in size 275/70R22.5.
2. Based on MICHELIN® X® MULTI Z tire versus MICHELIN® XZE2+® tire in size 275/70R22.5.

XRV®

Line Haul & Bus/RV & Regional

All-position radial designed specifically for exceptional performance on recreational vehicles and motor homes in coach applications.(3)

- Wide, "see-through" grooves promote drainage efficiency to help improve traction on wet surfaces.
- Multi-siping helps deliver dependable grip and long, even wear.
- Enlarged sidewall characters make load/pressure information easier to read, facilitating proper use and maintenance.
- Stable tread with cool running compound helps generate reduced squirm and lower heat for improved handling and durability.

1

2

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
235/80R22.5	G	87511	16	75	17.4	443	37.1	943	9.2	233	6.75, 7.50	10.3	262	556	4675	110	2120	760	4410	110	2000	760
255/80R22.5	G	59634	16	75	17.9	456	38.2	972	9.9	251	7.50, 8.25	11.2	284	541	5205	110	2360	760	4805	110	2180	760
305/70R22.5	L	93499	16	75	18.1	460	39.1	994	12.3	312	9.00, 8.25	13.5	343	531	7830	120	3550	830	6940	120	3150	830

1. Standard Sizes
2. 305/70R22.5
3. “No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels.” US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

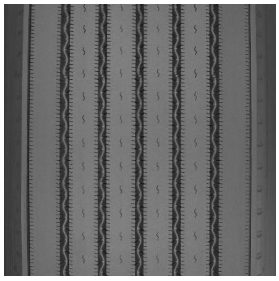
TRUCK TIRES - STEER/ALL POSITION TIRES

XZA®

Line Haul & Bus/RV

Fuel-efficient(1), all-position radial designed for long life steer axle service in line haul applications.

- No compromise rolling resistance delivered with Advanced Technology Compound, offering low rolling resistance with no compromise in wet traction, mileage, durability and even wear.
- Wet traction is improved using 3,000 trapezoidal micro sipes on the groove edges to help break water surface tension.
- Extra casing protection and stability comes from a five steel belt construction.
- Infini-Coil™ incorporates over 1/4 mile of steel cable to help eliminate casing growth and ensure a consistent footprint.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
365/70R22.5	L	52215	19	75	19.6	497	42.5	1,080	14.3	363	10.5	-	-	490	10500	125	4750	860	-	-	-	-

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

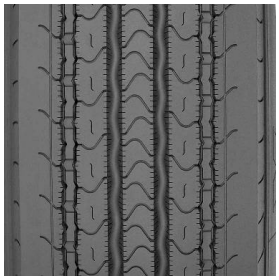
XZA2® ENERGY

Line Haul & Bus/RV & Regional

Fuel-efficient(1), all-position radial designed for long life steer axle service in line haul applications.(2)

- Unique intermediate rib design helps combat the onset of irregular wear in highway service.
- Exceptional handling and responsiveness through optimized shoulder design.
- Traction and lateral control offered by miniature sipes and variable groove angles.
- Approved for use on EPA SmartWay® certified equipment and meets California's CARB requirements.

SmartWay® Verified



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5	H	76807	16	75	19.1	486	41.3	1,048	11.8	299	9.00, 8.25	13.2	335	503	7830	120	3550	830	6940	120	3150	830

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

Note: Wheel listed first is the measuring wheel.
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Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - STEER/ALL POSITION TIRES

XZL™

Off Road

All-terrain, all-position radial for special service such as Emergency Response Vehicles and Tactical Wheeled Vehicles.

- Self-cleaning, open shoulder tread design features offset elements to help enhance traction and floatation capabilities on varied terrains including snow, sand, mud and highway.
- All-terrain, non-directional tread design for added versatility.
- Full-width steel belts and elastic protector ply help provide extra casing protection against most off-road hazards.
- Tubeless construction compatible with Central Tire Inflation systems and bead locks.

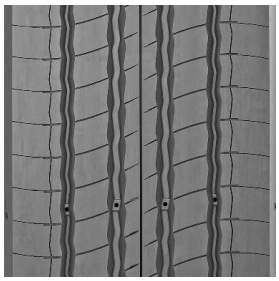
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
24R21	H	76025	31	55	24.8	631	54.6	1,388	23.9	608	18.00	-	-	383	15700	85	7100	590	-	-	-	-
365/85R20(1)	J	56389	28	55	20.4	519	45.0	1,144	14.5	368	10.00W	16.4	416	465	11000	115	5000	750	-	-	-	-
395/85R20(1)	J	54331	33	55	21.3	542	46.8	1,189	15.3	388	10.00W, 10.00, 10.00V	-	-	447	12300	120	5600	830	-	-	-	-

1. Please refer to Tubes and Flaps Table on Appendix Page ii. All Tubes and Flaps must be ordered separately.

X® MULTIWAY HD XZE®

On/Off Road & Regional

Improved mileage and exceptional handling, this all position tire delivers a smooth quiet ride and long life for heavy delivery vehicles in regional and suburban service.



- Improved load carrying capacity and longevity provided by Michelin's patented InfiniCoil™.
- Enhanced vehicle stability and even wear with a 7% wider footprint increasing total rubber on the road by 11% versus the MICHELIN® XFE™ tire.
- Excellent mileage and even wear provided by chip & cut resistant tread compounds.
- Improved fuel efficiency due to a 13% reduction in rolling resistance.(1)
- Resistant to aggressions, impacts and shocks through robust 5 belt casing design.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
385/65R22.5	L	26281	19	65	19.6	497	42.4	1,078	15.1	384	11.75, 12.25	-	-	490	11000	130	5000	900	-	-	-	-

1. Based on commissioned third-party green house gas testing comparing the MICHELIN® X® MULTIWAY HD XZE® to the MICHELIN® XFE™. Actual on-road results may vary.Note: Wheel listed first is the measuring wheel.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - STEER/ALL POSITION TIRES

X ONE® XZY® 3

On/Off Road

All-position wide base single designed for significant weight and fuel savings(1) in on/off road applications.

- Long tread life and outstanding chip and cut resistance in on/off road service with 23/32nds original tread depth of application-specific compound.
- Flat, stable contact area for long, even wear provided by Michelin's Infini-Coil™, featuring a 1/4 mile of steel cable to help eliminate casing growth.
- Enhanced protection against stone drilling from variable pitch groove walls and groove bottom protectors in center grooves.
- Great bead durability and resistance to heat from reinforced bead package featuring a wide metallic chafer.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
455/55R22.5	M	11629	23	75	19.4	492	41.9	1,065	17.8	452	14.00(2)	-	-	496	11700	130	5300	900	-	-	-	-

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. For use with 13.00 x 22.5 wheels, see Appendix Page ix.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - STEER/ALL POSITION TIRES

X® WORKS Z

On/Off Road & Regional

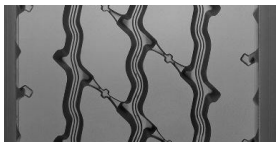
Our toughest all-position, on/off-road tire just got tougher.(3) With a 50% wider protector ply vs. leading competitive tires(4) and 5% more removal miles vs. the MICHELIN® XZY® 3 tire it replaces, this tire provides unsurpassed durability against road hazards—guaranteed.

- Tougher casing durability to help increase uptime and capping due to a 50% wider groove-to-groove protector ply and a thicker layer of shock absorbing cushion gum(5)
- 5% more removal mileage is delivered through a tough chip and cut resistant compound that fights tread abrasion and a wide footprint that promotes even wear(6)
- Dual layered defense against stone retention and stone-drilling, with V-channels and groove bottom protectors
- Strong, thick sidewall features a double treatment of TW6 OzoneShield™ Technology for increased protection against ozone cracking and weathering.
- Backed by Michelin's six-month worry-free road hazard guarantee(7)

(8)

6 MONTH GUARANTEE

1



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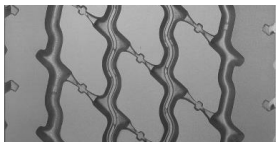


Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	H	15701	24	68	19.6	498	41.8	1,061	11.3	288	8.25, 7.50	12.5	318	495	6610	120	3000	830	6005	120	2725	830
11R24.5	H	78261	24	68	20.5	520	43.7	1,111	11.4	289	8.25, 7.50	12.5	318	473	7160	120	3250	830	6610	120	3000	830
12R22.5	H	11073	24	68	20.1	509	42.9	1,089	11.4	290	8.25, 9.00	13.2	335	483	7390	120	3350	830	6780	120	3075	830
315/80R22.5(9)	L	64204	23	68	19.8	502	42.9	1,089	12.5	318	9.00, 9.75	13.8	351	485	9090	130	4125	900	8270	130	3750	900

1. Standard Sizes
2. 315/80R22.5
3. Results based on three small-scale internal field tests using customer fleet vehicles vs. MICHELIN® XZY® 3 in size 11R24.5 LRH. Actual results may vary.
4. Protector ply width & cushion gum thickness compared to Bridgestone® M843 & M853, and Goodyear® G751™ MSA DuraSeal in size 11R22.5 LRH.
5. Protector ply width & cushion gum thickness compared to Bridgestone® M843 & M853, and Goodyear® G751™ MSA Duraseal in size 11R22.5 LRH.
6. Results based on three small-scale internal field tests using customer fleet vehicles vs. MICHELIN® XZY® 3 in size 11R24.5 LRH. Actual results may vary.
7. Contact your local Michelin representative for details.
8. 6-Month Worry Free Road Hazard Guarantee. Contact your local Michelin representative for details.
9. Not approved for use with 8.25 wheel.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

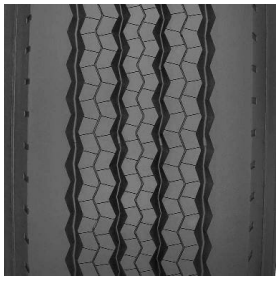
TRUCK TIRES - STEER/ALL POSITION TIRES

XFE™ WIDE BASE (STEER)

On/Off Road & Regional

The wide base single designed to deliver high mileage and a quiet ride on heavy front axle in regional and line haul applications.

- Dual-compound tread rubber helps ensure cool operating temperatures, while abrasion-resistant rubber compound helps keep tire wear rate low.
- Deep, wide channels help provide excellent water evacuation throughout the life of the tire.
- Lateral siping along rib edges help enhance traction and braking in adverse weather conditions.
- Robust crown design with four-steel belt package.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
425/65R22.5	L	11829	21	65	20.6	522	44.5	1,130	16.6	421	13.00, 12.25	-	-	468	11400	120	5150	825	-	-	-	-

XZL™ WIDE BASE

On/Off Road

All-position wide base radial designed for optimized traction in on/off road applications.

- Self-cleaning, open-shoulder tread design features offset elements to help enhance traction and floatation capabilities.
- Stable block design helps ensure a consistent footprint, even in free-rolling positions, to help deliver smooth, even wear and a quiet ride.
- Deep, application-specific compounds help provide resistance to aggressions and abrasion common in off-road service.
- Full-width steel belts and elastic protector ply help protect the casing against shocks, bruising and penetrations.
- Conventional 22.5" commercial sizes.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
445/65R22.5	L	84103	27	60	21.2	538	46.0	1,168	17.6	448	14.00, 13.00	-	-	453	12300	120	5600	830	-	-	-	-

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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TRUCK TIRES - STEER/ALL POSITION TIRES

XZL+™

On/Off Road

All-terrain, all-position radial for special service in extremely demanding applications.

- Traction and flotation on varied terrains such as snow, sand and mud is delivered using an open shoulder tread design, with self-cleaning elements.
- Casing protection against most off-road hazards comes from using full-width steel belts and elastic protector ply.
- Compatible with Central Tire Inflation systems and bead locks due to tubeless construction.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
395/85R20(1)	J	94675	26	55	21.1	537	46.3	1,176	15.4	391	10.00W, 10.00, 10.00V	-	-	451	12300	120	5600	830	-	-	-	-

1. Please refer to Tubes and Flaps Table on Appendix Page ii. All Tubes and Flaps must be ordered separately.

XZY® 3 WIDE BASE

On/Off Road

Exceptional all-position wide base radial designed for heavy front axle mixed service in on/off road applications.

- Improved traction in soft soil and mud promoted by aggressive new tread design.
- Improved floatation offered by wider tread (almost 1 inch wider than MICHELIN® XZY® Wide Base).
- Great resistance to shocks, bruising and penetrations fostered by new four-belt design, featuring full-width elastic protector ply.
- Added sidewall and shoulder protection from thicker rubber and new aggressive shoulder design.
- Improved wet traction throughout the tread life cultivated by deep, wide circumferential grooves and minimized bridging between tread elements.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
385/65R22.5	J	53779	22	65	19.6	499	42.4	1,078	14.9	379	11.75, 12.25	-	-	491	9370	120	4250	830	-	-	-	-
425/65R22.5	L	40321	23	65	20.6	524	44.7	1,137	16.6	421	13.00, 12.25	-	-	465	11400	120	5150	830	-	-	-	-
445/65R22.5	L	83691	23	65	21.1	536	45.8	1,164	17.8	451	14.00, 13.00	-	-	455	12800	130	5800	900	-	-	-	-

Note: Wheel listed first is the measuring wheel.
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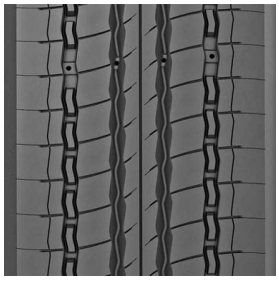
TRUCK TIRES - STEER/ALL POSITION TIRES

X® COACH HL Z

Regional & Bus/RV

Increased load capacity without compromising mileage, in an all-position tire designed for line haul and regional bus applications.(1)

- Increased load capacity – 7.5 tons for axles with single tires – due to patented Infini-Coil™, improved distribution of pressure across the tire width, and wide shoulder ribs.
- Exceptional handling from 4 wide longitudinal grooves and wide shoulder ribs.
- Extended casing life due to Infini-Coil™, a rectangular bead bundle, and full width protector ply.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5	H	31078	18	75	19.3	491	41.5	1,055	11.8	299	9.00, 8.25	12.8	326	499	8270	123	3750	850	7160	123	3250	850

1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

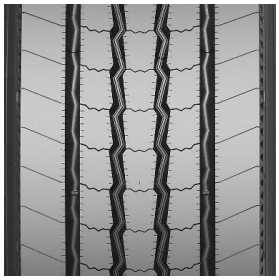
X® MULTI ENERGY Z

Regional & Line Haul & Urban

Engineered for SmartWay® verified fuel efficiency, long tread life and durability in regional and emerging super regional applications.

- 15% reduction in rolling resistance compared to MICHELIN® XZE 2™ tire. Benefit is delivered with new Energy Casing technology that provides a cool running sidewall and bead for low rolling resistance.
- No compromise fuel efficiency and mileage is delivered using Michelin's Dual Compound Tread technology, featuring a top wear layer of tread over a fuel and durability bottom layer.
- Excellent mileage comes from the Dual Compound Tread and the tread sculpture design. This combination provides outstanding mileage in regional applications, as well as in emerging super regional applications that combine highway and regional driving.
- Casing life is extended with curb guards to protect the sidewalls from impacts and abrasions, groove bottom protectors to help prevent stone-drilling, and a full width elastic protector ply to protect the casing.

Directional tread



SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5(1)	H	03168	20	75	19.3	491	41.3	1,048	11.2	285	8.25, 7.50	12.5	318	501	6610	120	3000	830	6005	120	2725	830
275/80R22.5(1)	H	26902	20	75	18.8	476	40.2	1,022	11.0	279	8.25, 7.50	12.2	311	515	7160	123	3250	850	6610	123	3000	850

1. Directional tread design.

Note: Wheel listed first is the measuring wheel.
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TRUCK TIRES - STEER/ALL POSITION TIRES

X® MULTI Z 17.5

Regional & Urban

All position radial tire optimized for steer axles on 4x2 delivery vehicles in regional and urban applications.

- 12% Improvement in Rolling Resistance(1) – New tread compound for lower rolling resistance and improved wear.
- Improved Grip – 6% greater net contact area (more rubber on the road).(2)
- Casing Durability – Extra strong curb guards help protect sidewalls against most impacts and abrasions for long casing life.

M&S (3)

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
215/75R17.5(4)	G	25151	14	81	14.0	356	30.3	770	8.5	217	6.00, 6.75	9.7	246	686	3750	102	1700	700	3525	102	1600	700

1. 12% improvement in rolling resistance versus the 215/75R17.5 MICHELIN® XZE®2 LRG tire.
2. 6% greater net contact area (rubber on the road for improved grip) versus the 215/75R17.5 MICHELIN® XZE®2 LRG tire.
3. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
4. Directional tread design.

X® MULTI Z 19.5

Regional & Line Haul & Urban

An all position radial tire optimized for a wide spectrum of regional applications.

- Increased Fuel Efficiency(1) - New tread compound lowers rolling resistance by 9% versus the MICHELIN® XZE®2+ tire.
- Reduced Irregular Wear - Directional tread design helps to reduce irregular wear.
- Enhanced Casing Life - Groove bottom protectors and stone ejectors help to reduce stone drilling to extend casing life.
- Extended Casing Life - Four-belt package helps to protect against shocks, impacts and road hazards.

M&S (2) SmartWay® Verified

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
265/70R19.5(3)	G	75319	16	81	15.8	400	34.0	864	10.2	259	7.50, 6.75	11.5	293	611	5510	112	2500	775	5205	112	2360	775
285/70R19.5(3)	H	31459	16	75	16.2	411	35.2	893	10.7	273	8.25, 7.50, 9.00	12.2	309	591	6610	123	3000	850	6175	123	2800	850

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
3. Directional tread design.

Note: Wheel listed first is the measuring wheel.
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TRUCK TIRES - STEER/ALL POSITION TIRES

X® MULTIWAY 3D XZE®

Regional & Line Haul & Urban

Improved fuel economy and mileage in an all-position tire for regional and coach applications.(1)

- Outstanding driving safety from improved braking, that reduces braking distances by 25%(2) and excellent traction from full-depth 3D Sipes that deliver improved grip(3) in challenging conditions.
- Outstanding fuel economy delivers 0.2 gallons per 100 miles in fuel savings(4), using an optimized tread design and materials.
- Tread life is improved 15% for front tires and 30% for rear tires(5) through use of a directional tread and optimized tread design.
- Full Width Elastic Protector Ply protects against penetrations, impacts breaks and shocks for maximum casing durability.

Directional tread

(6) M&S

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5(7)	H	07719	19	75	19.2	488	41.5	1,054	11.7	297	9.00, 8.25(8)	12.8	326	501	7830	123	3550	850	6940	123	3150	850
315/80R22.5(7)(9)	L	24903	21	75	19.7	502	42.6	1,081	12.4	316	9.00, 9.75	13.8	350	488	9090	130	4125	900	8270	130	3750	900

1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
2. Internal Michelin study. Vehicle fitted with MICHELIN® X® MULTIWAY 3D XZE® tires two-thirds worn compared with similarly worn MICHELIN® XZE®2+ tires for emergency braking (18 mph to 0 mph) on a wet, smooth, concrete surface.
3. Compared to MICHELIN® XZE®2+ tires.
4. Internal Michelin simulation, MICHELIN® X® MULTIWAY 3D XZE® tires compared to MICHELIN® XZE®2+ tires.
5. Internal Michelin simulation, MICHELIN® X® MULTIWAY 3D XZE® tires compared to MICHELIN® XZE®2+ tires.
6. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
7. Directional tread design.
8. For use with 8.25 x 22.5 wheels, consult Michelin.
9. Not approved for use with 8.25 wheel.

XZA® 17.5

Regional & Line Haul & On/Off Road

Fuel-efficient(1), all-position radial designed for long life steer axle service in line haul applications.

- Massive shoulders and application specific compound help resist scrub and abrasion, extending tread life.
- Zigzag groove design for true all-position use.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
10R17.5	G	05008	16	65	15.6	397	33.9	861	9.5	241	6.75, 7.50	11.1	282	615	4805	115	2180	790	4540	115	2060	790

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

Note: Wheel listed first is the measuring wheel.
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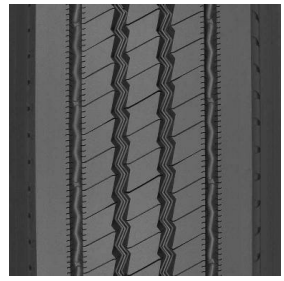
TRUCK TIRES - STEER/ALL POSITION TIRES

XZE®

Regional & Bus/RV & Line Haul

Exceptional all-position radial with extra-wide, extra-deep tread designed to help deliver our best wear in high scrub regional and line haul applications.



- Beefy, buttressed shoulders help resist tearing and accelerated wear in high scrub applications.
- Extra strong curb guards help protect sidewalls against most impacts and abrasions for long casing life.
- Groove bottom protectors help deliver additional defense against stone drilling.
- Application specific, high scrub compound (chip and cut resistant in versions with ☆ designation) make the MICHELIN® XZE® our longest wearing regional steer tire.
- Deep, wide tread and optimized footprint shape help deliver long, even tread wear.

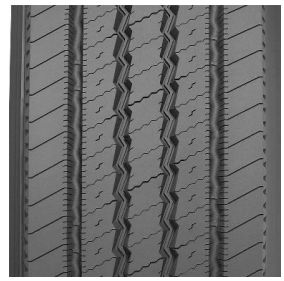
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
10R22.5	G	99141	21	75	18.7	475	40.1	1,019	10.2	259	6.75, 7.50, 8.25	11.1	282	517	5675	115	2575	790	5355	115	2430	790
12R22.5★	H	85335	22	75	19.8	503	42.6	1,082	11.4	290	8.25, 9.00	13.2	335	486	7390	120	3350	830	6780	120	3075	830
225/70R19.5	G	91043	17	87	15.2	385	32.2	819	9.3	237	6.75, 6.00	9.7	246	640	3970	110	1800	760	3750	110	1700	760
245/70R19.5	H	75997	18	75	15.6	396	33.6	853	9.7	247	6.75, 7.50	10.7	272	619	4940	120	2240	830	4675	120	2120	830
255/70R22.5★	H	61737	18	75	17.2	437	36.7	932	10.2	260	8.25, 7.50	11.6	295	563	5510	120	2500	830	5070	120	2300	830
275/80R22.5	H	01637	22	75	18.7	475	40.2	1,022	11.1	282	8.25, 7.50	12.2	311	516	7160	120	3250	830	6610	120	3000	830

★ With chip and cut resistant tread compound.

XZE 2™ STANDARD SIZES

Regional & Bus/RV & Urban

Exceptional regional, all-position radial with extra-wide, extra-deep tread designed to help deliver our best wear in high scrub regional and urban applications.



- Enhanced application-specific compound to help promote resistance to aggressions and longer tread life.
- 6% wider tread for improved wear and handling (when compared to MICHELIN® XZE® tire).
- Matrix and micro sipes protect against irregular wear.
- Zig-zag grooves and sipes help increase traction in new and worn tire conditions.
- North American design.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	78390	22	75	19.3	491	41.3	1,050	11.2	285	8.25, 7.50	12.5	318	501	6175	105	2800	720	5840	105	2650	720
11R22.5	H	67042	22	75	19.2	489	41.4	1,051	11.3	286	8.25, 7.50	12.5	318	501	6610	120	3000	830	6005	120	2725	830
11R24.5	G	91867	22	75	20.3	516	43.5	1,104	11.1	281	8.25, 7.50	12.5	318	476	6610	105	3000	720	6005	105	2725	720
11R24.5	H	88507	22	75	20.3	516	43.5	1,104	11.1	281	8.25, 7.50	12.5	318	476	7160	120	3250	830	6610	120	3000	830
275/80R22.5	G	55895	22	75	18.6	473	40.2	1,021	11.1	282	8.25, 7.50	12.2	311	517	6175	110	2800	760	5675	110	2575	760
275/80R24.5	G	75519	22	75	19.3	490	41.3	1,050	10.8	274	8.25, 7.50	12.2	311	501	6175	110	2800	760	5675	110	2575	760

Note: Wheel listed first is the measuring wheel.
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TRUCK TIRES - STEER/ALL POSITION TIRES

X® INCITY ENERGY Z

Urban

The all-position urban radial tire designed and optimized for new generation electric transit buses.

- Extra Thick Sidewalls – Strong protection against sidewall damage from shocks, impacts and curb scrub.
- Sidewall Wear Indicators – Promote timely tire rotation for long casing life and enhanced retreadability.
- Michelin Infini-Coil™ Technology – Over 850 feet of patented metallic cable applied at 0 degrees to stabilize the footprint shape for even wear while providing additional protection from shocks and impacts.
- Wear Resistant Tread Pattern – Optimized for urban bus conditions and for the reduction of irregular wear.(1)
- Regenerating Grooves – Full width grooves appear at end of life for improved wet traction
- Patented Michelin Matrix Sipe Technology provides biting edges needed for traction on wet and slippery surfaces while the interlocking 3D technology ensures tread element stability for long, even wear
- Optimized Design – Compounds and tread pattern combine to deliver outstanding fuel efficiency(2) and mileage for urban applications

M&S (3)

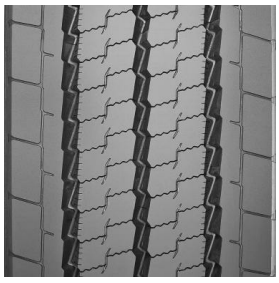
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
315/80R22.5(4)	L	10182	17	68	19.5	496	42.1	1,071	12.5	317	9, 9.75	13.8	351	493	9370	130	4250	900	8820	130	4000	900

1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
2. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
3. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
4. Not approved for use with 8.25 wheel.

X® INCITY Z

Urban

Improved mileage(1) and durability in an all-position tire designed for the challenges of urban conditions.(2)



- Delivers 20% longer tread life!(3)
- Extra Thick Sidewall - Strong protection against shocks, impacts and curb scrub
- Driver confidence delivered through the outstanding traction and even wear of Matrix Siping's full depth, interlocking sipes with zig-zag walls - providing thousands of biting edges for traction.
- Casing life is extended through the heat reducing impact of the rectangular bead bundle and an extended metallic chafer ply that protects against mounting damage and brake heat.

M&S (4)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	H	13712	20	65	19.4	492	41.5	1,054	11.1	282	8.25	12.6	320	500	6940	123	3150	850	6395	123	2900	850
275/70R22.5	J	59714	21	65	17.8	453	38.1	969	11.4	289	8.25, 7.5	11.9	303	542	6940	130	3150	900	6395	130	2900	900
305/70R22.5	L	02348	22	65	18.4	468	39.5	1,003	12.3	312	9, 8.25	13.4	341	525	8050	130	3650	900	7390	130	3350	900

1. Compared to MICHELIN® XZU®2 tires.
2. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
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3. When compared to MICHELIN® XZU®2 (12R22.5) tire vs MICHELIN® X® INCITY Z tires (305/70R22.5) in direct comparison fleet testing
4. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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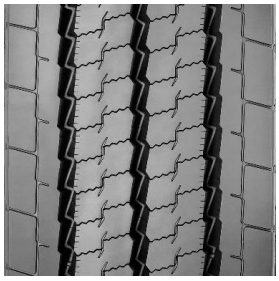
TRUCK TIRES - STEER/ALL POSITION TIRES

X® INCITY Z SL

Urban

An all-position tire designed for the challenges of urban transit operations.(1) This is a Single Life tire that offers optimized mileage and durability.

- Durable and Dependable – Designed to withstand tough conditions with extra thick sidewalls that helps to protect against shocks.
- Optimized Tread Life – Longer tread life with scrub resistant compound which helps to fight irregular treadwear in urban bus conditions.(2)
- Driver Confidence – Outstanding traction with Matrix Siping which provides inter-locking action which offers excellent traction and even wear.
- Outstanding Fuel Efficiency – Low rolling resistance without compromising tread life. Compounds and tread pattern combine to deliver outstanding fuel efficiency and mileage for urban applications.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
305/85R22.5	J	62156	24	68	20.0	507	42.7	1,085	11.7	298	9.00, 8.25	13.5	343	485	7830	120	3550	830	7160	120	3250	830

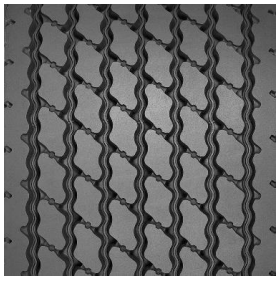
1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
2. Urban Transit buses fitted with 12R22.5 or 305/85R22.5 dimensions should only use the MICHELIN® X® INCITY Z or X® INCITY Z SL tires.

X ONE® XZU® S

Urban & Regional

All-position next generation wide base single designed for significant weight and fuel savings(1) in urban applications.

- Long tread life and outstanding scrub resistance in Urban/Regional service with 23/32nds original tread depth of application-specific compound.
- Flat, stable contact area for long, even wear provided by Michelin's Infini-Coil™, featuring a 1/4 mile of steel cable to help eliminate casing growth.
- Enhanced protection against stone drilling from variable pitch groove walls and groove bottom protectors in all grooves.
- Great bead durability and resistance to heat from reinforced bead package featuring a wide metallic chafer.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
455/55R22.5	M	28513	23	75	19.4	492	41.9	1,065	17.8	452	14.00(2)	-	-	496	11700	130	5300	900	-	-	-	-

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. For use with 13.00 x 22.5 wheels, see Appendix Page ix.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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TRUCK TIRES - STEER/ALL POSITION TIRES

XZU®S2

Urban & Regional

Next generation all-position tire with high carrying capacity designed for exceptional treadlife in high scrub urban applications such as waste vehicles.

- Get up to a 20% increase in removal miles (when compared to the MICHELIN® XZU®S tire).
- Maximize mileage and casing life with Co-Ex Technology
- Get improved retreadability (when compared to the MICHELIN® XZU®S tire) Protect the belt package from shocks and impacts with shock pads
- Maximum sidewall protection provided by aggressive protector ribs

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
315/80R22.5[1]	L	77510	23	65	19.6	498	42.8	1,087	12.5	318	9.00, 9.75	13.8	351	488	10000	130	4535	900	8270	130	3750	900

1. Not approved for use with 8.25 wheel.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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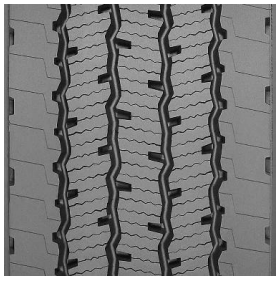
TRUCK TIRES - DRIVE TIRES

X® LINE ENERGY D

Line Haul

SmartWay® verified fuel economy with leading tread life and traction in an energy drive tire for line haul applications.



- SmartWay® verified fuel efficiency due to reduced rolling resistance from the Dual Energy Compound tread.
- Extended mileage from the wear resistance of the wider footprint, Matrix siping, and Dual Energy Compound tread.
- Driver confidence from the excellent traction and stability provided by Matrix Siping.
- Warrantied retreadability provided by an enhanced inner liner and strengthened bead area for reduced casing fatigue and maximum retreadability.

7 Year 700,000-MILE
3-RETREAD LIMITED WARRANTY(1)

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	35887	23	75	19.4	493	41.3	1,050	11.2	286	8.25, 7.5	12.5	318	500	6175	105	2800	720	5840	105	2650	720
275/80R22.5	G	36859	23	75	18.9	480	40.2	1,020	11.0	280	8.25, 7.5	12.2	311	514	6175	110	2800	760	5675	110	2575	760
275/80R24.5	G	36992	23	75	19.5	496	41.3	1,050	10.8	275	8.25, 7.5	12.2	311	499	6175	110	2800	760	5675	110	2575	760

1. 7/7/3 Manufacturer's Limited Casing Warranty: 7 Year or 700,000 Mile or 3-Retread Limited Warranty for MICHELIN® X LINE ENERGY D when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - DRIVE TIRES

X® LINE ENERGY D +

Line Haul

Our most fuel efficient(1) dual drive tire for the long haul. With the lowest rolling resistance among comparable tires,(2) the MICHELIN® X® Line Energy D+ tire delivers fuel savings while providing exceptional traction for driver confidence.

- FUEL SAVINGS
  Save $725 in Annual Fuel Savings with the MICHELIN® X® LINE ENERGY D + tire versus the Bridgestone M710 Ecopia™ tire in the drive position.(3)
- FUEL SAVINGS
  Ultra-low rolling resistance(4) SmartWay® Verified CARB compliant 2027 Greenhouse Gas 2 compliant
- LONG-LASTING TRACTION
  Interlocking siping and regenerating features provide biting edges throughout tread life
  Gets up and running faster with 35% better traction than a leading competitive tire(5)
- RETREADABILITY
  Infini-Coil® technology wraps 1/8 mile of steel cable around the casing to eliminate casing growth and insure a consistent footprint
  Durable casing with high tensile strength steel belts supports repeated retreading

7 Year

7 Year 700,000-MILE
3-RETREAD LIMITED WARRANTY(6)

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
275/80R22.5	G	10873	20	75	18.8	478	40.3	1,023	11.2	283	8.25, 7.50	12.2	311	514	6175	110	2800	760	5675	110	2575	760

1. Based on internal rolling resistance tests using ISO 28580 test method in tire size 275/80R22.5 LRG dual drive tire vs. the MICHELIN® XDA® ENERGY + tire. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.
2. Based on internal rolling resistance tests using ISO 28580 test method in tire size 275/80R22.5 LRG dual drive tire vs. the Bridgestone M710 Ecopia tire, Goodyear Fuel Max LHD G505D tire and Continental HDL2 tire in equivalent 295/75R22.5 LRG dimension. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.
3. Fuel savings calculated based on replacing the Bridgestone M710 Ecopia with the MICHELIN® X® LINE ENERGY D + in (8) drive tire positions on a class 8 tandem-drive axle truck. Calculations also based on the U.S. National average diesel fuel price as of August 26, 2019 of $2.98 per gallon, for a class 8 tandem-drive axle truck and single tandem axle trailer combination travelling 100,000 miles/year. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance. Rolling resistance results from internally performed ISO 28580 test method.
4. Based on internal ISO 28580 rolling resistance testing using size 275/80R22.5 LRG.
5. In a standardized starting snow test when tires are new, the 275/80R22.5 MICHELIN® X® LINE ENERGY D+ tire traveled 35% faster than the 295/75R22.5 Bridgestone® M710™ Ecopia™ tire, which are equivalent sizes. Actual on-road results may vary.
6. 7/7/3 Manufacturer's Limited Casing Warranty: 7 Year or 700,000 Mile or 3-Retread Limited Warranty for MICHELIN® X LINE ENERGY D + when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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TRUCK TIRES - DRIVE TIRES

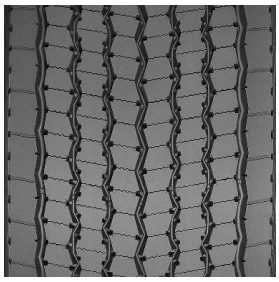
X ONE® LINE ENERGY D

Line Haul

Leading SmartWay® fuel economy(1) and improved mileage in a next generation wide base single drive tire for line haul applications.

- No compromise SmartWay® fuel economy from Dual Energy Compound Tread, delivering a top Fuel and Mileage layer, over a cool running Fuel and Durability layer for reduced rolling resistance and extended casing life.
- 15% longer tread life than MICHELIN® X ONE® XDA® Energy from the Dual Energy Compound Tread, wide footprint and solid shoulder for force distribution, and Infini-Coil® which wraps 1/4 mile of steel cable around the casing to eliminate casing growth and insure a consistent footprint.
- Driver confidence delivered through the outstanding traction and even wear of Matrix Siping's full depth, interlocking sipes with zig-zag walls - providing thousands of biting edges for traction.
- Casing life is extended through use of the Dual Energy Compound Tread for a cooler running tire, a full-width elastic protector ply, and rectangular bead bundle.

Directional tread



SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
445/50R22.5(2)	L	24306	24	75	18.6	471	40.2	1,021	17.1	435	14.00	-	-	517	10200	120	4625	830	-	-	-	-

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Directional tread design.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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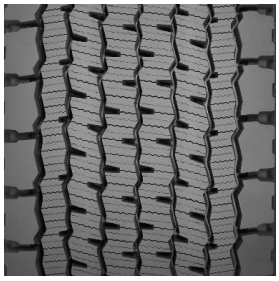
TRUCK TIRES - DRIVE TIRES

X ONE® LINE GRIP D

Line Haul & Regional



MICHELIN's next generation X ONE drive tire for long haul and regional applications with grip that weathers the elements. Over 25% better snow traction than leading competitive tires.(1)

- MAXIMIZE DRIVER CONFIDENCE IN HARSH WEATHER
- Snow Traction – Over 25% better snow traction than leading competitor tires.(2)
- 3 Peak Mountain Snow Flake Certification – Traction verified in an Arctic test facility.(3)
- Open Shoulder – Designed for additional grip in adverse weather and snow conditions.
- MINIMIZE TOTAL COST OF OWNERSHIP
- Maximize Tread Life – Top layer of dual compound tread provides long tread life.
- Excellent Retreadability – Bottom layer of dual compound tread provides cooler running rubber for long casing life.
- Weight Savings – 389 lbs more payload than dual tires.(4)
- Fuel Savings – Save your fleet $550 per truck annually in fuel by replacing the MICHELIN® X ONE® XDN®2 with the MICHELIN® X ONE® LINE GRIP D tire, when you pay $2.99 per gallon.(5)
- 8% Better Rolling Resistance than the MICHELIN® X ONE® XDN®2 tire.(6)

M&S (7) (8) SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
445/50R22.5	L	55210	27	75	18.6	474	40.4	1,026	17.1	435	14.00	-	-	515	10200	120	4625	830	-	-	-	-
455/55R22.5	L	41721	27	75	19.6	497	42.4	1,076	17.6	448	14.00(9)	-	-	491	11000	120	5000	830	-	-	-	-

1. In a standardized snow test, the 445/50R22.5 MICHELIN® X ONE® LINE GRIP D tire travelled 54% faster than the 445/50R22.5 Bridgestone® Greatec™ M835™ Ecopia™ tire and 28% faster than the 445/50R22.5 Goodyear® G392A SSD™ DuraSeal + Fuel Max™ tire. Actual on-road results may vary.
2. In a standardized snow test, the 445/50R22.5 MICHELIN® X ONE® LINE GRIP D tire travelled 54% faster than the 445/50R22.5 Bridgestone® Greatec™ M835™ Ecopia™ tire and 28% faster than the 445/50R22.5 Goodyear® G392A SSD™ DuraSeal + Fuel Max™ tire. Actual on-road results may vary.
3. 3PMSF (3 Peak Mountain Snow Flake) is from European R117 regulation. It has no regulatory Truck Tire reference in N.A. The tire must score at least 25% better in deep snow traction than the Standard Reference Test Tire on an ECE certified ISO test procedure. 3PMSF always appears with "M+S" mark.
4. Based on replacing eight MICHELIN® XDN®2 dual tires with Alcoa® Ultra ONE® wheels with four MICHELIN® X ONE® LINE GRIP D tires with Alcoa® Ultra ONE® Wheels.
5. Fuel savings calculated based on replacing the MICHELIN® X ONE® XDN®2 tire with the MICHELIN® X ONE® LINE GRIP D tire in four drive positions on a class 8 tandem-drive axle truck and single tandem axle trailer combination traveling 100,000 miles / year. Calculations also based on the US National average diesel fuel price as of January 16, 2018. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment, and maintenance.
6. Based on 3rd party rolling resistance tests using ISO 282580 comparing the MICHELIN® X ONE® LINE™ GRIP D and MICHELIN® X ONE® XDN®2 tire in the 445/50R22.5 dimension. Actual results may vary.
7. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
8. See MichelinTruck.com for additional information.
9. For use with 13.00 x 22.5 wheels, see Appendix Page ix.

Note: Wheel listed first is the measuring wheel.
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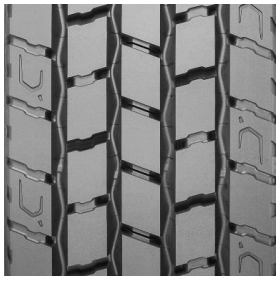
TRUCK TIRES - DRIVE TIRES

XDA® ENERGY +

Line Haul



An ultra-fuel-efficient(1), line haul, dual drive tire. Saves your fleet $400 annually per truck in fuel by replacing the Bridgestone M710 Ecopia™ tire with the MICHELIN® XDA® ENERGY + tire, when you pay $2.53 per gallon.(2)

- Fuel Savings Limited Guarantee(3) – Innovative guarantee brings peace of mind.
- Fuel Efficiency – Helps Lower Fuel Consumption to Reduce Operating Costs. Innovative FuelSaver™ tread compound helps 7% better rolling resistance vs. a leading competitive line haul dual drive tire(4) brings new levels of fuel efficiency and saving.
- Mileage – Long Even Wear Helps Reduce Maintenance Costs. Tread design optimized to help provide this long even wear.
- Retreadability – MICHELIN® durable casings designed to provide multiple retreads to help reduce maintenance costs. 7 YEAR / 700,000-MILE / 3-RETREAD Manufacturer's Limited Casing Guarantee to Maximize Your Assets.

7 Year

7 Year 700,000-MILE
3-RETREAD LIMITED WARRANTY(5)

(6)

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
275/80R22.5	G	08024	23	75	18.9	480	40.4	1,027	10.9	277	8.25, 7.5	12.2	311	512	6175	110	2800	760	5675	110	2575	760

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Fuel savings calculated based on replacing the Bridgestone M710 Ecopia™ with the MICHELIN® XDA® Energy+ in (8) drive tire positions on a class 8 tandem-drive axle truck. Calculations also based on the U.S. National average diesel fuel price as of July 31, 2017 for a class 8 tandem-drive axle truck and single tandem axle trailer combination traveling 120,000 miles/year. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.
3. See your Michelin Representative or michelintruck.com/reference-materials/manuals-bulletins-and-warranties/ for details.
4. Vs. BRIDGESTONE M710 Ecopia™ based on internal rolling resistance tests using ISO 28580 in tire size equivalent 275/80R22.5.
5. 7/7/3 Manufacturer's Limited Casing Warranty: 7 Year or 700,000 Mile or 3-Retread Limited Warranty for MICHELIN® XDA ENERGY + when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.
6. See MichelinTruck.com for additional information.

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TRUCK TIRES - DRIVE TIRES

XDA®5+

Line Haul & Regional

Longest wearing drive tire featuring regenerating tread features that deliver excellent traction late in life for line haul applications.

- Improved fuel efficiency, with a 5% rolling resistance improvement over MICHELIN® XDA®5 tire, provided by the Advanced Technology compound.
- Leading tread life, and smooth wear – solid shoulders.
- Excellent mileage and stability – wide footprint / square shoulders.
- Exceptional handling, traction, and stability – Matrix Siping Technology.
- Late life traction – regenerating tread features.
- Extended casing life and retreadability – full-width elastic protector ply.
- Reduced heat and fatigue – rectangular bead bundle, a Michelin exclusive.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	14003	30	75	19.5	495	41.7	1,058	11.3	287	8.25, 7.50	12.5	318	497	6175	105	2800	720	5840	105	2650	720
11R24.5	H	97973	30	75	20.6	523	43.8	1,113	11.3	287	8.25, 7.50	12.5	318	471	7160	120	3250	830	6610	120	3000	830
275/80R22.5	G	61310	30	75	19.0	483	40.6	1,031	11.1	281	8.25, 7.50	12.2	311	510	6175	110	2800	760	5675	110	2575	760
275/80R24.5	G	01376	30	75	19.7	499	41.8	1,062	10.8	273	8.25, 7.50	12.2	311	494	6175	110	2800	760	5675	110	2575	760

XDN®2

Line Haul & Regional

All weather premium drive tire optimized for exceptional traction and mileage in line haul and regional applications.

- Michelin's Matrix siping technology helps provide exceptional traction on dry and slippery surfaces. Over 1,300 biting edges combine to help provide excellent levels of traction while the 3 dimensional Matrix™ sipes lock together for the stability normally associated with solid tread blocks.
- Extra-wide tread (nearly 1" wider than MICHELIN® XDN® tire) helps provide stability while helping to improve handling and mileage.
- Full 27/32nds tread depth helps provide long original tread life.
- Wide, open shoulder grooves help deliver additional traction balanced with tread life.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	72805	27	75	19.5	495	41.7	1,060	11.2	284	8.25, 7.50	12.5	318	496	6175	105	2800	720	5840	105	2650	720
11R22.5	H	64321	27	75	19.5	495	41.7	1,060	11.2	284	8.25, 7.50	12.5	318	496	6610	120	3000	830	6005	120	2725	830
11R24.5	H	87129	27	75	20.5	522	43.8	1,112	11.2	284	8.25, 7.50	12.5	318	473	7160	120	3250	830	6610	120	3000	830
12R22.5	H	51753	27	75	20.0	508	42.9	1,089	11.3	287	8.25, 9.00	13.2	335	483	7390	120	3350	830	6780	120	3075	830
275/80R22.5	G	63465	27	75	18.9	481	40.6	1,030	11.0	279	8.25, 7.50	12.2	311	511	6175	110	2800	760	5675	110	2575	760
275/80R24.5	G	75684	27	75	19.6	497	41.8	1,061	10.6	270	8.25, 7.50	12.2	311	495	6175	110	2800	760	5675	110	2575	760

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - DRIVE TIRES

XDN®2 GRIP

Line Haul & Regional

All weather, directional, premium drive tire optimized for exceptional traction and mileage in line haul and regional applications.

- Michelin's Matrix siping technology helps provide exceptional traction on dry and slippery surfaces. Over 1,300 biting edges combine to help provide excellent levels of traction while the 3 dimensional Matrix sipes lock together for the stability normally associated with solid tread blocks.
- Extra-wide tread (nearly 1" wider than MICHELIN® XDN® tire) helps provide stability while helping to improve handling and mileage.
- Full 28/32 tread depth helps provide long original tread life.
- Wide, open shoulder grooves help deliver additional traction balanced with tread life.

Directional tread

M&S (1)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
315/80R22.5[2][3]	L	04355	28	75	20.0	507	43.1	1,094	12.5	317	9.00, 9.75	13.8	351	486	9090	130	4125	900	8270	130	3750	900

1. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
2. Directional tread design.
3. Not approved for use with 8.25 wheel.

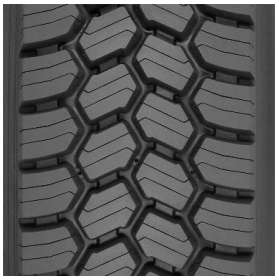
XDS®

Line Haul & Regional

The drive axle radial for year-round traction and optimized for severe winter conditions in line haul and regional applications.

- Rugged directional tread design helps boost snow and ice traction and helps reduce heel/toe wear typically associated with open shoulder designs.
- Full-width zigzag sipes interlock to enhance block stability under torque while helping to provide extra bite, especially in deep snow.
- Deep V-shaped lateral shoulder grooves help to maximize mud and snow evacuation.
- Extra-robust four-belt crown package with extra-wide working plies help deliver exceptional casing life.
- Full-width elastic protector ply and extra-thick rubber under the tread help protect the working plies from shocks, bruises and impacts.

Directional tread



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
12R22.5[1]	H	62208	26	65	19.9	506	42.8	1,087	11.8	300	8.25, 9.00	13.2	335	484	7390	120	3350	830	6780	120	3075	830

1. Directional tread design.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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TRUCK TIRES - DRIVE TIRES

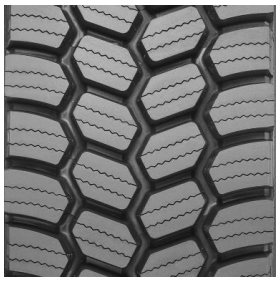
XDS 2™ STANDARD SIZES

Line Haul & Regional

Second generation of Michelin's best drive axle radial for deep snow and mud traction.

- Rugged directional tread design helps boost snow and ice traction and helps reduce heel/toe wear typically associated with open shoulder designs.
- Michelin Durable Technology's Matrix 3-Dimensional siping for enhanced stability and exceptional traction in both dry and slippery conditions.
- Extra robust four-belt crown package with extra wide working plies help deliver exceptional casing life.
- Full-width elastic protector ply and extra thick rubber under the tread help protect the working plies from shocks, bruises and impacts.
- SipeSaver teardrop at the base of the sipes relieves stresses and helps prevent tearing.

Directional tread



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5(1)	H	05359	26	65	19.6	498	41.9	1,065	11.4	289	8.25, 7.50	12.5	318	494	6610	120	3000	830	6005	120	2725	830
11R24.5(1)	H	06613	26	65	20.5	521	43.9	1,114	11.0	279	8.25, 7.50	12.5	318	472	7160	120	3250	830	6610	120	3000	830

1. Directional tread design.

Note: Wheel listed first is the measuring wheel.
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TRUCK TIRES - DRIVE TIRES

X® WORKS GRIP D

On/Off Road

Our most aggressive drive axle tire is made specifically for energy and logging fleets operating in extreme conditions. Designed with safety in mind, using real feedback from real drivers, the MICHELIN® X® Works Grip D has exceptional traction to help keep you on the road.

- Stability in all conditions – Extra wide tread for stable footprint
- Optimized rubber to void ratio for maximum traction without sacrificing mileage
- Shock, impact and road hazard protection – 4 steel belts in the summit package for enhanced durability
- Maximum sidewall protection – Extra thick sidewalls for severe service protection against aggression, chipping and scaling
- Efficient snow chain mount and dismount – Optimized housing design allows quick and efficient installation and removal of snow chains
- Staggered shoulder blocks to help lateral grip for slippery conditions
- Saw-tooth lugs with 800+ serrated edges that add grip for slippery surfaces
- Continuous stone ejectors around the center block fight stone retention and drilling to protect the casing
- 4 steel belts in the summit package for enhanced durability
- Co-Ex technology for cool running tread rubber reducing temperatures in crown area and preserving the casing

6 MONTH GUARANTEE (1)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R24.5	H	51503	32	65	20.8	528	44.4	1,127	11.3	288	8.25	12.5	318	466	7160	120	3250	830	6610	120	3000	830

1. 6-Month Worry Free Road Hazard Guarantee. Contact your local Michelin representative for details.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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TRUCK TIRES - DRIVE TIRES

X® WORKS XDY®

On/Off Road & Urban

Next generation on/off road drive tire optimized for exceptional traction and wear in mixed and severe service for on/off road applications.

- Get a 10% increase in removal mileage due to a new wider tread design (when compared to the MICHELIN® XDY®3 tire).
- Improved traction with more efficient mud evacuation from a new directional tread design (when compared to the MICHELIN® XDY®3 tire).
- Maximum mileage and casing life with Co-Ex Technology.
- Excellent retreadability with a robust four steel belt construction.
- Maximum sidewall protection provided by an extra-thick sidewall.

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5[1]	H	89725	30	65	19.7	499	41.9	1,065	11.3	287	8.25, 7.50	12.5	318	493	6610	120	3000	830	6005	120	2725	830
11R24.5[1]	H	90022	30	65	20.7	526	44.0	1,118	11.3	288	8.25, 7.50	12.5	318	469	7160	120	3250	830	6610	120	3000	830
315/80R22.5[1][2]	L	55576	28	65	20.0	507	43.0	1,091	12.5	317	9.00, 9.75	13.8	351	486	9090	130	4125	900	8270	130	3750	900

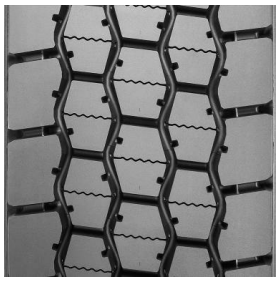
1. Directional tread design.
2. Not approved for use with 8.25 wheel.

X® MULTI D

Regional & Urban

The next-generation regional drive tire offering first-class tire mileage and excellent scrub resistance with no compromises to traction.

- First-class mileage and scrub resistance due to the use of co-extruded compounds that optimize performance.
- More Grip, Less Slip is provided by the full depth Matrix siping combined with the regenerating tread feature. Zero to On The Road 80% faster than a leading competitor.[1]
- Excellent traction due to the pass-through open shoulder, Matrix™ siping and the regenerating tread feature.
- Casing durability is delivered through the use of TW6 OzoneShield™ technology, cooler running rubber from the co-extrusion process, and a full width protector ply.



(2)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
10R22.5	G	74441	22	75	18.8	479	40.3	1,023	9.7	247	7.50, 6.75, 7.5	11.4	290	514	5675	115	2575	790	5355	115	2430	790
11R22.5	G	33502	28	75	19.5	495	41.8	1,062	11.3	288	8.25, 7.5	12.5	318	496	6175	105	2800	720	5840	105	2650	720
11R22.5	H	80276	28	75	19.6	498	41.9	1,064	11.4	288	8.25, 7.5	12.5	318	494	6610	120	3000	830	6005	120	2725	830
11R24.5	H	27287	28	75	20.5	521	43.8	1,112	11.2	284	8.25, 7.5	12.5	318	472	7160	120	3250	830	6610	120	3000	830
255/70R22.5	H	76760	24	75	17.4	442	37.0	940	10.3	261	8.25, 7.50	11.3	287	558	5510	120	2500	830	5070	120	2300	830
275/80R22.5	G	76710	27	75	19.0	483	40.5	1,029	11.0	280	8.25, 7.5	12.2	311	510	6175	110	2800	760	5675	110	2575	760

1. In a standardized snow test, the 11R22.5 MICHELIN® X® MULTI D tire travelled 80% further from start versus the 11R22.5 Bridgestone® M726 ELA tire. Actual results may vary.
2. See MichelinTruck.com for additional information.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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TRUCK TIRES - DRIVE TIRES

X® MULTI D 19.5

Regional & Urban

The MICHELIN® X® MULTI D is an open shoulder drive axle radial tire designed for regional applications.

- 12% More Surface Contact Area(1) - Contributes to tread stability and efficient miles/32nds
- Advanced Technology Compound - Results in 13% lower rolling resistance for improved fuel efficiency(2)
- Aggressive Tread Design with Semi-Open Shoulder - Provides exceptional traction and driver confidence
- Robust 4 Belt Package - Provides stable footprint and overall durability

(3) M&S SmartWay® Verified

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
285/70R19.5(4)	H	09733	17	75	16.2	412	35.3	897	10.7	273	8.25, 7.50, 9.00	12.2	309	590	6610	123	3000	850	6175	123	2800	850

1. The 265/70R19.5 MICHELIN® X® MULTI D tread width is 0.4" greater than its predecessor the MICHELIN® XDE®2+ tire. When combined with the change in tread design the result is a 12% increase in rubber contact area with the road surface for a more sturdy footprint.
2. Versus MICHELIN® XDE®2+ tire.
3. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
4. Directional tread design.

X® MULTI D 295

Regional & Line Haul

The versatile, all-season drive tire for regional and line haul operations.

- Better Tread Life – 20% better tread life than the MICHELIN® X® MULTIWAY XD tire.
- Optimized Tread Design – Regenerating tread design provides traction throughout life.
- Improved Rolling Resistance – 26% improvement in rolling resistance compared to the MICHELIN® X® MULTIWAY XD tire.
- Infini-Coil® Technology – Infini-Coil® Belt Technology strengthens the crown against shocks and impacts.

(1) M&S

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/60R22.5(2)	J	20735	21	75	17.0	432	36.5	928	11.8	300	9.00(3)	13.3	339	568	7390	130	3350	900	6780	130	3075	900

1. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.
2. Directional tread design.
3. For further instructions on proper usage of the 295/60R22.5, see Appendix Page xi.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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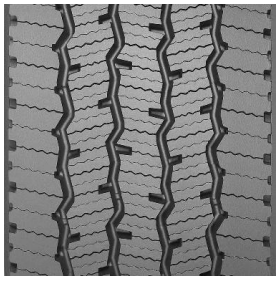
TRUCK TIRES - DRIVE TIRES

X® MULTI ENERGY D

Regional & Line Haul

Ultra fuel-efficient(1) SmartWay® verified drive tire designed for optimized traction and treadlife in regional and super regional applications.

- Exceptional fuel-efficiency and tread/casing life due to the Dual Energy Compound Tread, which provides low rolling resistance, anti-scrub properties, and minimizes internal casing temperatures.
- Outstanding traction and even wear are conveyed by the inter-locking action of full depth Matrix siping.
- Long tread life and stability are enabled by a wide, optimized footprint, which eliminates the need for additional tread depth.
- Additional traction is provided in adverse weather conditions due to shoulder siping.



SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	58300	24	75	19.4	493	41.4	1,051	11.3	287	8.25, 7.50	12.5	318	499	6175	105	2800	720	5840	105	2650	720
11R24.5	H	61739	24	75	20.4	518	43.4	1,103	11.3	287	8.25, 7.50	12.5	318	476	7160	120	3250	830	6610	120	3000	830
275/80R22.5	G	63049	24	75	18.9	480	40.2	1,022	11.0	281	8.25, 7.50	12.2	311	514	6175	110	2800	760	5675	110	2575	760

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

XDE®2+

Regional & Line Haul

Open shoulder drive axle radial designed for regional and line haul applications.

- Bridged center block design helps improve tread stability.
- High density of lateral grooves help provide excellent traction in all weather conditions.
- Directional tread design allows for good traction and long original tread life.

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
265/70R19.5(1)	G	95319	20	81	15.9	404	34.4	875	10.3	262	7.50, 6.75, 8.25	11.6	295	605	5510	112	2500	775	5205	112	2360	775

1. Directional tread design.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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TRUCK TIRES - DRIVE TIRES

XDS®2 19.5

Regional & Urban

Drive axle radial for year round traction, optimized for winter conditions and limited all-position service in regional and on/off road applications.

- Outstanding traction on wet and slippery surfaces from over 700 3D Matrix sipes.
- Optimized for stone rejection with variable angled groove walls and groove bottom protectors.
- Traction in demanding surface conditions from open shoulder design.
- Protection from impacts through robust curb guard features and sidewall scallops.
- Self-cleaning tread pattern through zig-zag groove angles and wide, open shoulder grooves.

M&S (1)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
225/70R19.5	G	24975	18	87	15.2	387	32.3	821	9.2	234	6.75, 6.00	10.0	254	638	3970	110	1800	760	3750	110	1700	760
245/70R19.5	H	23134	19	75	15.7	400	33.6	854	9.7	247	6.75, 7.50	10.7	272	615	4940	120	2240	830	4675	120	2120	830

1. Three Peak Mountain Snowflake (3PMSF) Certification: Designed for use in severe snow conditions.

X® INCITY GRIP D SL

Urban

All weather premium drive tire optimized for exceptional traction in Urban Transit applications.(1) This is a Single Life tire that offers optimized mileage and durability.

- Optimized Tread Life – Longer tread life with scrub resistant compound which helps to fight irregular treadwear in urban bus conditions.(2)
- Driver Confidence – Outstanding traction with Matrix Siping which provides inter-locking action which offers excellent traction and even wear.
- Durable and Dependable – Designed to withstand tough conditions.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
305/85R22.5	J	08623	26	68	20.0	508	42.9	1,090	11.8	300	9.00, 8.25	13.5	343	483	7830	120	3550	830	7160	120	3250	830

1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
2. Urban Transit buses fitted with 12R22.5 or 305/85R22.5 dimensions should only use the MICHELIN® X® INCITY Z, X® INCITY Z SL or X® INCITY GRIP D SL tires.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

TRUCK TIRES - TRAILER TIRES

X® LINE ENERGY T

Line Haul & Regional

SmartWay® fuel efficiency(1) with excellent mileage and casing durability in a trailer tire designed specifically for line haul applications.

- 10% improved rolling resistance vs. MICHELIN® XT-1® tires due to next generation Advanced Technology Compound.
- Exceptional handling from 4 circumferential grooves that deliver excellent water evacuation.
- Extended casing life thanks to a curb guard that protects the shoulder and sidewall, and a rectangular bead bundle that reduces heat and fatigue in the casing.

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	92005	12	75	19.1	485	40.9	1,039	11.2	285	8.25, 7.50	12.5	318	493	6175	105	2800	720	5840	105	2650	720
11R24.5	H	92448	12	75	20.0	508	43.0	1,092	11.1	283	8.25, 7.50	12.5	318	482	7160	120	3250	830	6610	120	3000	830
275/80R22.5	G	92052	12	75	18.4	468	39.7	1,008	11.1	281	8.25, 7.50	12.2	311	523	6175	110	2800	760	5675	110	2575	760
275/80R24.5	G	92981	12	75	19.1	485	40.8	1,036	10.8	274	8.25, 7.50	12.2	311	507	6175	110	2800	760	5675	110	2575	760

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

X® LINE ENERGY T 19.5

Line Haul & Regional

Fuel-efficient(1), long wearing, small diameter trailer tire designed for high cube service in line haul applications.

- Reduced rolling resistance of 14% vs. MICHELIN® XTA®2 ENERGY tire due to specially engineered rubber compounds.
- Up to 14% longer tread life than MICHELIN® XTA®2 ENERGY tire from a wider tread that distributes force, massive shoulders for scuff resistance, and micro sipes that help prevent abnormal wear.
- Driving confidence, especially in wet conditions, delivered by the efficient water evacuation of see-through circumferential grooves and blind sipes.
- Casing life is extended through the heat reducing impact of the rectangular bead bundle and an extended metallic chafer ply that protects against mounting damage and brake heat.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
265/70R19.5	H	40936	13	62	15.7	399	33.9	862	10.4	265	7.50, 6.75, 8.25	11.8	300	608	6005	123	2725	850	5675	123	2575	850

1. Based on industry standard rolling resistance testing of comparable trailer tires. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
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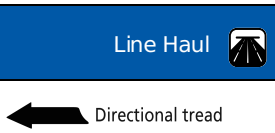
TRUCK TIRES - TRAILER TIRES

X ONE® LINE ENERGY T2

Line Haul



Our most fuel-efficient trailer tire(1), the MICHELIN® X ONE® LINE ENERGY T2 tire is designed for improved tread wear while providing fuel(2) and weight(3) savings to lower your total cost of ownership.

- IMPROVED WEAR
  The MICHELIN® X ONE® LINE ENERGY T2 is designed for better wear vs. the Michelin® X One® Line Energy T tire it replaces.
  - New Tread Design – New directional micro sipes and robust solid shoulders help reduce irregular wear.
  - Innovative New Bead Rubber – Designed to improve resistance to damages when dismounting.
  - Infini-Coil® Technology – A ¼ mile of continuous steel cable wrapped around the casing to help eliminate casing growth and maintain a consistent footprint for long mileage.
  - Matrix Siping – Located on the three center ribs, sipes with zigzag walls interlock to provide a stable tread block for squirm resistance.
- FUEL SAVINGS
  Save your fleet in fuel expenses by replacing the Bridgestone Greatec R197 Ecopia™ tire with the MICHELIN® X One® Line Energy T2 tire delivering 11% lower rolling resistance in the trailer position.(4)
- WEIGHT SAVINGS
  Increase Revenue – Carry more cargo: 287 lbs. more payload vs. dual tires.(5)
- TOTAL SATISFACTION GUARANTEE
  MICHELIN® X® ONE Total Satisfaction Guarantee
  You can be confident this tire will perform. Guidelines and exclusions apply. Please see MichelinTruck.com / Warranties for details.(6)

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
445/50R22.5(7)	L	75029	12	75	18.2	463	39.4	1,002	17.1	433	14.00	-	-	527	10200	120	4625	830	-	-	-	-

1. Based on internal rolling resistance tests using ISO 28580 test method using comparable line haul trailer tires in tire size 275/80R22.5 LRG for the MICHELIN® X® Line Energy T and 445/50R22.5 LRL for the MICHELIN® X® One Line Energy T2 tire.
2. The U.S. EPA as part of their SmartWay® Program has demonstrated incremental fuel savings when low rolling resistance tires are used just on the tractor and/or just on the trailer. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and drive tires used, driving habits, tire size, equipment and maintenance.
3. Based on replacing (8) MICHELIN® X® Line Energy T tires with Alcoa® Ultra ONE® wheels with (4) MICHELIN® X One® Line Energy T2 Tires with Alcoa® Ultra ONE® wheels.
4. Based on external 3rd party rolling resistance tests using ISO 28580 test method using comparable line haul trailer tires in the 445/50R22.5 LRL tire size. The U.S. EPA as part of their SmartWay® Program has demonstrated incremental fuel savings when low rolling resistance tires are used just on the tractor and/or just on the trailer. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and drive tires used, driving habits, tire size, equipment and maintenance.
5. Based on replacing (8) MICHELIN® X® Line Energy T tires with Alcoa® Ultra ONE® wheels with (4) MICHELIN® X One® Line Energy T2 tires with Alcoa® Ultra ONE® wheels.
6. Some restrictions apply. Please see MichelinTruck.com for details.
7. Directional tread design.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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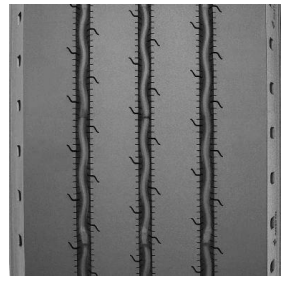
TRUCK TIRES - TRAILER TIRES

XTA®2 ENERGY

Line Haul & Regional

Fuel-efficient(1), small diameter trailer tire that helps deliver long, even tread wear in high cube line haul applications.

- Improved retreadability from a stronger, more durable crown package (compared to the MICHELIN® ENERGY XTA®).
- Advanced technology compounds formulated to help provide low rolling resistance and cool operating temperatures.
- See-through circumferential grooves promote efficient water evacuation for good wet braking and traction throughout the life of the tire.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
245/70R17.5	J	78370	13	62	14.2	361	31.2	792	9.5	241	6.75, 7.50	10.6	270	670	6005	125	2725	860	5675	125	2575	860

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

XTY®2

On/Off Road & Regional

Low profile radial designed for rugged, mixed use trailer service in on/off road applications.

- Chip and cut-resistant compound helps resist the abusive conditions of on/off road applications.
- Four steel belt construction designed to deliver extra protection for the casing and stability.
- Extra-wide protector ply extends under all the major grooves and helps protect the working plies from most bruising and penetrations.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
275/70R22.5	J	01658	21	62	17.7	450	38.2	970	10.9	276	7.50, 8.25	11.9	303	544	6940	131	3150	900	6395	131	2900	900

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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TRUCK TIRES - TRAILER TIRES

X® MULTI T 17.5

Regional & Line Haul & Urban

Robust small diameter tire designed to withstand the demands of high scrub and spread axle service on low platform and specialty trailers in various regional applications. Replacing the MICHELIN® XTE®2 235/75R17.5 size.

- Enhanced Mileage - Dual compound tread rubber helps ensure cool operating temperatures, while abrasion-resistant rubber compound helps keep tire wear rate low.
- Excellent Wet Traction - Deep, wide channels help provide excellent water evacuation throughout the life of the tire.
- Durable Casing - Robust crown design with 4-steel belt package.

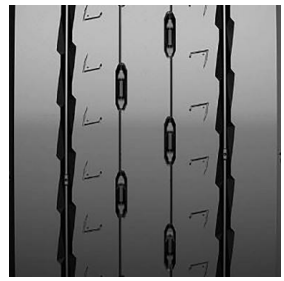
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
245/70R17.5	H	18537	15	62	14.3	364	31.3	796	9.4	239	6.75, 7.50	10.7	271	662	6005	127	2725	875	5675	127	2575	875

X® MULTI T2

Regional & Urban

Improved mileage and exceptional durability, this regional and urban trailer tire is primarily used on steerable lift axles on heavy box and flat-bed trailers.

- Up to 20% More Mileage(1) – Innovative evolving groove design which promotes uniform wear and resists stone retention.
- Increased Traction and Stability(2) – Beefy solid shoulders and increased rubber volume help resist the abrasion of lateral scrub.
- Longer Life and Retreadability – Robust crown design with 4-steel belt package.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
385/55R22.5	L	28644	19	68	18.1	461	39.4	1,001	15.0	381	11.75	-	-	523	9920	130	4500	900	-	-	-	-

1. +20% mileage vs MICHELIN® X® MUTLI T tire.
2. 8% larger total contact area than the MICHELIN® X® MUTLI T tire.

Note: Wheel listed first is the measuring wheel.
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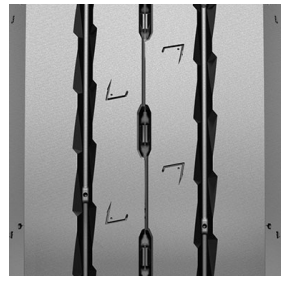
TRUCK TIRES - TRAILER TIRES

X® MULTI T2 - 17.5

Regional & Line Haul & On/Off Road

The highway trailer radial optimized for low bed, high cube trailer operations in regional applications.



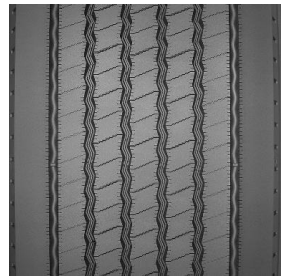
- Resistance to irregular wear from shallow tread depth and very stable tread elements.
- Resistance to stone-retention from significant groove wall angles.
- Tread Regeneration: New tread grooves emerge when worn to provide additional grip and enhanced mobility over the life of the tire.
- Outstanding casing durability through robust three belt crown design featuring full width elastic protector ply.
- Infini-Coil™ Technology: Incorporates a continuous steel cable wrapped around the tire to ensure a consistent footprint and enhance tire endurance.
- Stable bead area, minimizing fatigue and extending casing life through Michelin's rectangular bead bundle - a Michelin exclusive.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
215/75R17.5	J	37607	15	62	13.9	354	30.2	766	8.2	208	6.00	9.3	236	683	4940	130	2240	900	4670	130	2120	900
245/70R17.5	J	38670	16	62	14.4	365	31.4	798	9.4	240	6.75, 7.50	10.7	272	664	6005	130	2725	900	5675	130	2575	900

X ONE® MULTI ENERGY T

Regional & Line Haul

Directional tread



Breakthrough Advanced Casing Technology delivers a significant reduction in irregular wear(1) and improved fuel economy(2) to Michelin's latest wide base single tire for regional operations.

- Irregular wear is reduced by Advanced Casing Technology, microsipes, a solid shoulder and a wide Infini-Coil®.
- Advanced Technology Compounds help reduce rolling resistance – promoting low fuel consumption with no compromise in mileage, durability or casing endurance.
- Outstanding handling comes from an optimized architecture that features wide grooves to promote water evacuation.
- Extended casing life comes from using waved groove bottoms and stone ejectors that help defend against stone drilling.

SmartWay® Verified

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
445/50R22.5(3)	L	33836	16	75	18.4	467	39.7	1,008	17.1	434	14.00	-	-	523	10200	120	4625	830	-	-	-	-
455/55R22.5(3)	L	47798	16	75	19.3	490	41.7	1,059	17.6	447	14.00(4)	-	-	499	11000	120	5000	830	-	-	-	-

1. Versus MICHELIN® X ONE® XTE® tire in field testing and observation.
2. Improvement based on comparison vs MICHELIN® X ONE® XTE® tire rolling resistance. Rolling resistance data is determined using drum tests according to ISO 28580 procedures. For more information, see your Michelin Truck Representative. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
3. Directional tread design.
4. For use with 13.00 x 22.5 wheels, see Appendix Page ix.

Note: Wheel listed first is the measuring wheel.
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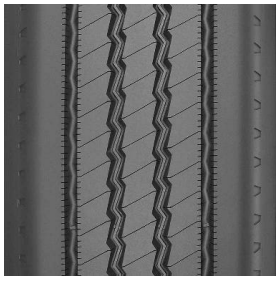
TRUCK TIRES - TRAILER TIRES

XTE®

Regional & Line Haul

The robust trailer radial designed to withstand the demands of high scrub and spread axle service in regional and line haul applications.

- Long tread life from 16/32nds of application-specific compounds.
- Smooth, even wear in high-scrub service from beefy, solid shoulders and trailer optimized design.
- Protection from impacts and curbing promoted by sidewall scallops and curb guard features.
- Standardized casing dimensions help ensure interchangeability with Michelin long haul steer and drive casings for efficient casing management.



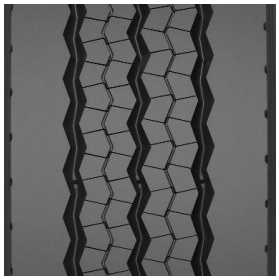
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	21307	16	75	19.1	484	41.0	1,041	11.3	288	8.25, 7.50	12.5	318	506	6175	105	2800	720	5840	105	2650	720
11R24.5	G	07025	16	75	20.0	509	43.0	1,093	11.3	286	8.25, 7.50	12.5	318	482	6610	105	3000	720	6005	105	2725	720
275/80R22.5	G	17706	16	75	18.6	472	39.8	1,012	11.0	280	8.25, 7.50	12.2	311	520	6175	110	2800	760	5675	110	2575	760

XTE® 2+

Regional & Line Haul & Urban

Robust small diameter trailer tire designed to withstand the demands of high scrub on low platform and specialty trailers in regional and line haul applications.

- Long Tread Life - Dual compound tread rubber helps ensure cool operating temperatures, while chip and cut resistant rubber compound helps resist the abrasion/aggression from lateral scrub and rough surfaces.
- Improved Wet Traction - Deep, wide channels help provide excellent water evacuation throughout the life of the tire.
- Excellent Traction - Lateral siping along rib edges help enhance traction and braking in adverse weather conditions.
- Casing Durability - Robust crown design with 4-steel belt package.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
215/75R17.5	H	68593	15	62	14.1	359	30.7	779	8.5	215	6.00, 6.75	9.6	243	679	4805	125	2180	860	4540	125	2060	860

Note: Wheel listed first is the measuring wheel.
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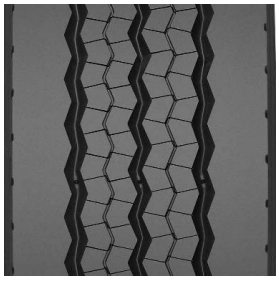
TRUCK TIRES - TRAILER TIRES

XTE2®

Regional & Line Haul & On/Off Road

Robust small diameter trailer tire designed to withstand the demands of high scrub and spread axle service on low platform and specialty trailers in regional and line haul applications.

- Dual compound tread rubber helps ensure cool operating temperatures, while abrasion-resistant rubber compound helps keep tire wear rate low.
- Deep, wide channels help provide excellent water evacuation throughout the life of the tire.
- Lateral siping along rib edges help enhance traction and braking in adverse weather conditions.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
245/70R19.5	J	67113	16	65	15.4	392	33.4	849	9.7	246	6.75, 7.50	10.9	278	621	5675	125	2575	860	5510	125	2500	860
285/70R19.5	J	51278	18	62	16.1	409	35.2	894	11.2	285	8.25	12.7	323	589	7390	130	3350	900	6940	130	3150	900

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

MICHELIN INFLATION CHARTS FOR TRUCK TIRES

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WHEEL DIAMETER 17.5"	PSI	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
	kPa	380	410	450	480	520	550	590	620	660	690	720	760	790	830	860	900		
10R17.5 LRG XZA® 17.5	LBS SINGLE							7720	8010	8300	8600	8940	9280	9610				S	4805 LBS AT 115 PSI
	LBS DUAL							14560	15140	15720	16320	16940	17560	18160				D	4540 LBS AT 115 PSI
	KG SINGLE							3500	3640	3780	3900	4060	4220	4360				S	2180 KG AT 790 kPa
	KG DUAL							6600	6880	7160	7400	7680	7960	8240				D	2060 KG AT 790 kPa
215/75R17.5 LRG X® MULTI Z 17.5	LBS SINGLE	4600	4890	5260	5530	5900	6170	6540	6810	7140	7400							S	3750 LBS AT 102 PSI
	LBS DUAL	8660	9190	9890	10420	11130	11640	12300	12800	13470	13950							D	3525 LBS AT 102 PSI
	KG SINGLE	2090	2220	2390	2510	2680	2800	2970	3090	3240	3360							S	1700 KG AT 700 kPa
	KG DUAL	3930	4170	4490	4730	5050	5280	5580	5810	6110	6330							D	1600 KG AT 700 kPa
215/75R17.5 LRH XTE® 2+	LBS SINGLE						6750	7080	7390	7720	8020	8360	8660	8990	9300	9610		S	4805 LBS AT 125 PSI
	LBS DUAL						12790	13400	14000	14590	15190	15780	16380	16980	17570	18160		D	4540 LBS AT 125 PSI
	KG SINGLE						3062	3211	3352	3502	3638	3792	3928	4078	4218	4360		S	2180 KG AT 860 kPa
	KG DUAL						5802	6078	6350	6618	6890	7158	7430	7702	7970	8240		D	2060 KG AT 860 kPa
215/75R17.5 LRJ X® MULTI T2 - 17.5	LBS SINGLE							7050	7340	7710	7980	8260	8610	8900	9250	9520	9880	S	4940 LBS AT 130 PSI
	LBS DUAL							13330	13860	14590	15120	15630	16330	16840	17520	18030	18690	D	4670 LBS AT 130 PSI
	KG SINGLE							3200	3330	3500	3620	3750	3910	4040	4200	4320	4480	S	2240 KG AT 900 kPa
	KG DUAL							6050	6290	6620	6860	7090	7410	7640	7950	8180	8480	D	2120 KG AT 900 kPa
245/70R17.5 LRH X® MULTI T 17.5	LBS SINGLE						8400	8820	9230	9640	10050	10450	10840	11240	11620	12010		S	6005 LBS AT 127 PSI
	LBS DUAL						15880	16680	17460	18220	18980	19740	20500	21240	21980	22700		D	5675 LBS AT 127 PSI
	KG SINGLE						3820	4040	4200	4400	4560	4720	4940	5100	5300	5450		S	2725 KG AT 875 kPa
	KG DUAL						7200	7600	7920	8320	8640	8920	9320	9640	10000	10300		D	2575 KG AT 875 kPa
245/70R17.5 LRJ XTA®2 ENERGY	LBS SINGLE						8400	8820	9230	9640	10050	10450	10840	11240	11620	12010		S	6005 LBS AT 125 PSI
	LBS DUAL						15880	16680	17460	18220	18980	19740	20500	21240	21980	22700		D	5675 LBS AT 125 PSI
	KG SINGLE						3820	4040	4200	4400	4560	4720	4940	5100	5300	5450		S	2725 KG AT 860 kPa
	KG DUAL						7200	7600	7920	8320	8640	8920	9320	9640	10000	10300		D	2575 KG AT 860 kPa
245/70R17.5 LRJ X® MULTI T2 - 17.5	LBS SINGLE							8570	8900	9360	9720	10050	10490	10820	11260	11590	12020	S	6005 LBS AT 130 PSI
	LBS DUAL							8090	8420	8860	9170	9500	9920	10220	10640	10950	11350	D	5675 LBS AT 130 PSI
	KG SINGLE							3890	4040	4250	4410	4560	4760	4910	5110	5260	5450	S	2725 KG AT 900 kPa
	KG DUAL							3670	3820	4020	4160	4310	4500	4640	4830	4970	5150	D	2575 KG AT 900 kPa

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Loads are indicated per axle

WHEEL DIAMETER **19.5"**	PSI	65	70	75	80	85	90	95	100	105	110	115	120	123	125	130	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
	kPa	450	480	520	550	590	620	660	690	720	760	790	830	850	860	900		
225/70R19.5 LRG XDS®2 19.5 XZE®	LBS SINGLE	5510	5790	6080	6390	6630	6900	7280	7430	7690	7940						S	3970 LBS AT 110 PSI
	LBS DUAL	10400	10880	11440	12000	12460	12980	13660	13960	14460	15000						D	3750 LBS AT 110 PSI
	KG SINGLE	2500	2620	2760	2900	3000	3140	3300	3380	3480	3600						S	1800 KG AT 760 kPa
	KG DUAL	4720	4920	5200	5440	5640	5880	6200	6320	6560	6800						D	1700 KG AT 760 kPa
245/70R19.5 LRH XDS®2 19.5 XZE®	LBS SINGLE			6780	7140	7500	7850	8200	8540	8880	9220	9550	9880				S	4940 LBS AT 120 PSI
	LBS DUAL			12840	13520	14200	14860	15520	16160	16800	17440	18080	18700				D	4675 LBS AT 120 PSI
	KG SINGLE			3080	3220	3400	3540	3720	3860	4000	4180	4300	4480				S	2240 KG AT 830 kPa
	KG DUAL			5840	6120	6440	6720	7040	7320	7560	7920	8160	8480				D	2120 KG AT 830 kPa
245/70R19.5 LRJ XTE2®	LBS SINGLE				7300	7720	8085	8450	8820	9185	9920	10285	10650		11020		S	5675 LBS AT 125 PSI
	LBS DUAL				14550	15170	15790	16405	17140	17875	18610	19345	20085		20820		D	5510 LBS AT 125 PSI
	KG SINGLE				3310	3505	3670	3835	4000	4165	4500	4665	4830		5000		S	2575 KG AT 860 kPa
	KG DUAL				6600	6880	7165	7440	7775	8110	8440	8775	9110		9440		D	2500 KG AT 860 kPa
265/70R19.5 LRG X® MULTI Z 19.5 XDE®2+	LBS SINGLE	7140	7510	8000	8370	8860	9210	9700	10050	10380	10840						S	5510 LBS AT 112 PSI
	LBS DUAL	13470	14170	15120	15800	16730	17410	18290	18950	19620	20480						D	5205 LBS AT 112 PSI
	KG SINGLE	3240	3410	3630	3800	4020	4180	4400	4560	4710	4920						S	2500 KG AT 775 kPa
	KG DUAL	6110	6430	6860	7170	7590	7900	8300	8600	8900	9290						D	2360 KG AT 775 kPa
265/70R19.5 LRH X® LINE ENERGY T 19.5	LBS SINGLE			8250	8680	9110	9540	9960	10380	10790	11200	11610		12010			S	6005 LBS AT 123 PSI
	LBS DUAL			15580	16420	17220	18040	18840	19620	20400	21180	21940		22700			D	5675 LBS AT 123 PSI
	KG SINGLE			3740	3920	4140	4320	4540	4700	4860	5080	5240		5450			S	2725 KG AT 850 kPa
	KG DUAL			7080	7400	7840	8160	8560	8880	9200	9600	9920		10300			D	2575 KG AT 850 kPa
285/70R19.5 LRH X® MULTI D 19.5 X® MULTI Z 19.5	LBS SINGLE			8920	9340	9870	10270	10800	11190	11570	12100	12470	12980				S	6610 LBS AT 123 PSI
	LBS DUAL			16660	17430	18430	19180	20170	20890	21620	22570	23280	24220				D	6175 LBS AT 123 PSI
	KG SINGLE			4050	4240	4480	4660	4900	5080	5250	5490	5660	5890				S	3000 KG AT 850 kPa
	KG DUAL			7560	7910	8360	8700	9150	9480	9810	10240	10560	10990				D	2800 KG AT 850 kPa
285/70R19.5 LRJ XTE2®	LBS SINGLE					10520	11010	11500	11980	12460	12930	13400	13860		14320	14780	S	7390 LBS AT 130 PSI
	LBS DUAL					19760	20680	21600	22500	23400	24280	25160	26040		26920	27760	D	6940 LBS AT 130 PSI
	KG SINGLE					4770	4990	5220	5430	5650	5860	6080	6290		6500	6700	S	3350 KG AT 900 kPa
	KG DUAL					8960	9380	9800	10210	10610	11010	11410	11810		12210	12600	D	3150 KG AT 900 kPa

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WHEEL DIAMETER **20"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**		
365/85R20 LRJ XZL™	LBS SINGLE	14780	15620	16460	17280	18080	18880	19680	20400	21200	22000		S	11000 LBS AT 115 PSI
	LBS DUAL												D	
	KG SINGLE	6720	7160	7480	7920	8240	8660	8980	9280	9700	10000		S	5000 KG AT 750 kPa
	KG DUAL												D	
395/85R20 LRJ XZL+™ XZL™	LBS SINGLE		16900	17780	18660	19540	20400	21200	22200	23000	23800	24600	S	12300 LBS AT 120 PSI
	LBS DUAL												D	
	KG SINGLE		7700	8060	8520	8860	9320	9660	10000	10440	10760	11200	S	5600 KG AT 830 kPa
	KG DUAL												D	

WHEEL DIAMETER **21"**	**PSI**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**280**	**310**	**340**	**380**	**410**	**450**	**480**	**520**	**550**	**590**		
24R21 LRH XZL™	LBS SINGLE	17180	18880	20600	22200	23800	25400	26800	28400	30000	31400	S	15700 LBS AT 85 PSI
	LBS DUAL											D	
	KG SINGLE	7820	8480	9140	9980	10620	11440	12040	12840	13420	14200	S	7100 KG AT 590 kPa
	KG DUAL											D	

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WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
10R22.5 LRG X® MULTI D XZE®	LBS SINGLE	8160	8560	8960	9350	9700	10050	10410	10720	11030	11350				S	5675 LBS AT 115 PSI
	LBS DUAL	15440	16180	16920	17640	18340	19040	19760	20300	20840	21420				D	5355 LBS AT 115 PSI
	KG SINGLE	3700	3880	4060	4240	4400	4560	4720	4860	5000	5150				S	2575 KG AT 790 kPa
	KG DUAL	7000	7320	7640	8000	8320	8640	8960	9200	9440	9720				D	2430 KG AT 790 kPa
11R22.5 LRG X® LINE ENERGY D X® LINE ENERGY T X® LINE ENERGY Z X® MULTI D X® MULTI ENERGY D XDA®5+ XDN®2 XTE® XZE 2™ Standard Sizes	LBS SINGLE	9060	9540	9980	10440	11020	11460	11900	12350						S	6175 LBS AT 105 PSI
	LBS DUAL	17520	18320	19040	19800	20820	21660	22500	23360						D	5840 LBS AT 105 PSI
	KG SINGLE	4100	4320	4520	4740	5000	5200	5400	5600						S	2800 KG AT 720 kPa
	KG DUAL	7960	8320	8640	9000	9440	9840	10240	10600						D	2650 KG AT 720 kPa
11R22.5 LRH X® INCITY Z	LBS SINGLE		9360	9810	10360	10780	11350	11750	12160	12690	13090	13620			S	6940 LBS AT 123 PSI
	LBS DUAL		17260	18050	19090	19860	20870	21640	22390	23390	24110	25080			D	6395 LBS AT 123 PSI
	KG SINGLE		4250	4450	4700	4890	5150	5330	5520	5760	5940	6180			S	3150 KG AT 850 kPa
	KG DUAL		7830	8190	8660	9010	9470	9820	10160	10610	10940	11380			D	2900 KG AT 850 kPa
11R22.5 LRH X® LINE ENERGY Z X® MULTI D X® MULTI ENERGY Z X® WORKS XDY® X® WORKS Z XDN®2 XDS 2™ Standard Sizes XZE 2™ Standard Sizes	LBS SINGLE		9540	9980	10440	11020	11460	11900	12350	12640	12930	13220			S	6610 LBS AT 120 PSI
	LBS DUAL		18320	19040	19800	20820	21660	22500	23360	23580	23800	24020			D	6005 LBS AT 120 PSI
	KG SINGLE		4320	4520	4740	5000	5200	5400	5600	5740	5880	6000			S	3000 KG AT 830 kPa
	KG DUAL		8320	8640	9000	9440	9840	10240	10600	10720	10840	10900			D	2725 KG AT 830 kPa

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WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
12R22.5 LRH X® WORKS Z XDN®2 XDS® XZE®	LBS SINGLE		10400	10900	11380	12010	12410	12810	13220	13740	14260	14780			S	7390 LBS AT 120 PSI
	LBS DUAL		19960	20760	21560	22700	23140	23580	24020	25060	26100	27120			D	6780 LBS AT 120 PSI
	KG SINGLE		4720	4940	5160	5450	5640	5820	6000	6240	6480	6700			S	3350 KG AT 830 kPa
	KG DUAL		9040	9400	9760	10300	10520	10720	10900	11360	11840	12300			D	3075 KG AT 830 kPa
235/80R22.5 LRG XRV®	LBS SINGLE	6940	7290	7720	7950	8280	8600	8910	9220	9350					S	4675 LBS AT 110 PSI
	LBS DUAL	12640	13260	14100	14460	15060	15880	16220	16780	17640					D	4410 LBS AT 110 PSI
	KG SINGLE	3140	3300	3500	3600	3760	3900	4040	4180	4240					S	2120 KG AT 760 kPa
	KG DUAL	5720	6000	6400	6560	6840	7200	7360	7600	8000					D	2000 KG AT 760 kPa
255/70R22.5 LRH X® MULTI D XZE®	LBS SINGLE			8380	8740	9100	9350	9790	10130	10410	10800	11020			S	5510 LBS AT 120 PSI
	LBS DUAL			15880	16440	17100	17640	17820	18440	18700	19660	20280			D	5070 LBS AT 120 PSI
	KG SINGLE			3800	3960	4120	4240	4440	4600	4720	4900	5000			S	2500 KG AT 830 kPa
	KG DUAL			7200	7440	7760	8000	8080	8360	8480	8920	9200			D	2300 KG AT 830 kPa
255/80R22.5 LRG XRV®	LBS SINGLE	7750	8140	8600	8880	9240	9610	9950	10300	10410					S	5205 LBS AT 110 PSI
	LBS DUAL	14100	14820	15440	16160	16820	17640	18100	18740	19220					D	4805 LBS AT 110 PSI
	KG SINGLE	3520	3700	3900	4020	4200	4360	4520	4680	4720					S	2360 KG AT 760 kPa
	KG DUAL	6400	6720	7000	7320	7640	8000	8200	8520	8720					D	2180 KG AT 760 kPa
275/70R22.5 LRJ XTY®2	LBS SINGLE				9880	10340	10800	11250	11700	12140	12580	13020	13460	13880	S	6940 LBS AT 131 PSI
	LBS DUAL				18200	19060	19900	20740	21560	22380	23200	24000	24780	25580	D	6395 LBS AT 131 PSI
	KG SINGLE				4500	4680	4920	5100	5280	5500	5680	5900	6080	6300	S	3150 KG AT 900 kPa
	KG DUAL				8280	8600	9040	9360	9720	10120	10440	10880	11200	11600	D	2900 KG AT 900 kPa
275/70R22.5 LRJ X® INCITY Z	LBS SINGLE				9880	10340	10800	11250	11700	12140	12580	13020	13460	13880	S	6940 LBS AT 130 PSI
	LBS DUAL				18200	19060	19900	20740	21560	22380	23200	24000	24780	25580	D	6395 LBS AT 130 PSI
	KG SINGLE				4500	4680	4920	5100	5280	5500	5680	5900	6080	6300	S	3150 KG AT 900 kPa
	KG DUAL				8280	8600	9040	9360	9720	10120	10440	10880	11200	11600	D	2900 KG AT 900 kPa
275/70R22.5 LRJ X® MULTI Z - 275	LBS SINGLE				9880	10340	10800	11250	11700	12140	12580	13020	13460	13880	S	6940 LBS AT 131 PSI
	LBS DUAL				18200	19060	19900	20740	21560	22380	23200	24000	24780	25580	D	6395 LBS AT 131 PSI
	KG SINGLE				4500	4680	4920	5100	5280	5500	5680	5900	6080	6300	S	3150 KG AT 900 kPa
	KG DUAL				8280	8600	9040	9360	9720	10120	10440	10880	11200	11600	D	2900 KG AT 900 kPa

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WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
275/80R22.5 LRG X® LINE ENERGY D X® LINE ENERGY D + X® LINE ENERGY T X® LINE ENERGY Z X® MULTI D X® MULTI ENERGY D XDA® ENERGY + XDA®5+ XDN®2 XTE® XZE 2™ Standard Sizes	LBS SINGLE	9000	9450	9880	10310	10740	11020	11560	11960	12350					S	6175 LBS AT 110 PSI
	LBS DUAL	16380	17200	18160	18760	19540	20280	21040	21760	22700					D	5675 LBS AT 110 PSI
	KG SINGLE	4080	4280	4480	4680	4880	5000	5240	5420	5600					S	2800 KG AT 760 kPa
	KG DUAL	7440	7800	8240	8520	8880	9200	9560	9880	10300					D	2575 KG AT 760 kPa
275/80R22.5 LRH X® LINE ENERGY Z XZE®	LBS SINGLE		9830	10350	10870	11380	11880	12380	12870	13360	13840	14320			S	7160 LBS AT 120 PSI
	LBS DUAL		18160	19120	20060	21000	21940	22860	23760	24660	25560	26440			D	6610 LBS AT 120 PSI
	KG SINGLE		4480	4680	4940	5140	5420	5600	5800	6060	6240	6500			S	3250 KG AT 830 kPa
	KG DUAL		8240	8640	9120	9520	10000	10360	10720	11200	11520	12000			D	3000 KG AT 830 kPa
275/80R22.5 LRH X® MULTI ENERGY Z	LBS SINGLE		10140	10620	11100	11680	12190	12700	13220	13580	13940	14320			S	7160 LBS AT 123 PSI
	LBS DUAL		19480	20280	21040	22040	22700	23360	24020	24820	25640	26440			D	6610 LBS AT 123 PSI
	KG SINGLE		4600	4820	5040	5300	5540	5780	6000	6320	6460	6500			S	3250 KG AT 850 kPa
	KG DUAL		8840	9200	9560	10000	10240	10320	10900	11280	11640	12000			D	3000 KG AT 850 kPa
295/60R22.5 LRJ X® LINE ENERGY Z - 295 X® MULTI D 295	LBS SINGLE				10520	11010	11500	11980	12460	12930	13400	13860	14320	14780	S	7390 LBS AT 130 PSI
	LBS DUAL				19300	20200	21100	21980	22860	23720	24580	25440	26280	27120	D	6780 LBS AT 130 PSI
	KG SINGLE				4770	4990	5220	5430	5650	5860	6080	6290	6460	6700	S	3350 KG AT 900 kPa
	KG DUAL				8750	9160	9570	9970	10370	10760	11150	11540	11920	12300	D	3075 KG AT 900 kPa
295/80R22.5 LRH XZA2® ENERGY	LBS SINGLE		10750	11320	11880	12440	12990	13540	14080	14600	15140	15660			S	7830 LBS AT 120 PSI
	LBS DUAL		19060	20060	21060	22060	23020	24000	24940	25900	26840	27760			D	6940 LBS AT 120 PSI
	KG SINGLE		4880	5100	5400	5620	5920	6120	6340	6620	6820	7100			S	3550 KG AT 830 kPa
	KG DUAL		8680	9080	9600	9960	10480	10880	11240	11760	12120	12600			D	3150 KG AT 830 kPa
295/80R22.5 LRH X® COACH HL Z	LBS SINGLE		11150	11660	12340	12850	13510	13990	14480	15120	15580	16220			S	8270 LBS AT 123 PSI
	LBS DUAL		19330	20230	21400	22260	23410	24250	25080	26210	27020	28100			D	7160 LBS AT 123 PSI
	KG SINGLE		5060	5290	5600	5830	6130	6350	6570	6860	7070	7360			S	3750 KG AT 850 kPa
	KG DUAL		8770	9180	9710	10100	10620	11000	11380	11890	12260	12750			D	3250 KG AT 850 kPa
295/80R22.5 LRH X® MULTIWAY 3D XZE®	LBS SINGLE		10560	11040	11680	12160	12780	13240	13710	14300	14770	15360			S	7830 LBS AT 123 PSI
	LBS DUAL		18730	19590	20740	21580	22680	23500	24310	25390	26190	27240			D	6940 LBS AT 123 PSI
	KG SINGLE		4790	5010	5300	5520	5800	6010	6220	6490	6700	6970			S	3550 KG AT 850 kPa
	KG DUAL		8500	8890	9410	9790	10290	10660	11030	11520	11880	12360			D	3150 KG AT 850 kPa

MICHELIN INFLATION CHARTS FOR TRUCK TIRES

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D = Dual configuration, or 4 tires per axle.
Loads are indicated per axle

WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
305/70R22.5 LRL XRV®	LBS SINGLE		10750	11320	11880	12440	12990	13540	14080	14600	15140	15660			S	7830 LBS AT 120 PSI
	LBS DUAL		19060	20060	21060	22060	23020	24000	24940	25900	26840	27760			D	6940 LBS AT 120 PSI
	KG SINGLE		4880	5100	5400	5620	5920	6120	6340	6620	6820	7100			S	3550 KG AT 830 kPa
	KG DUAL		8680	9080	9600	9960	10480	10880	11240	11760	12120	12600			D	3150 KG AT 830 kPa
305/70R22.5 LRL X® INCITY Z	LBS SINGLE				11480	11940	12560	13000	13470	14060	14500	15070	15520	16100	S	8050 LBS AT 130 PSI
	LBS DUAL				21070	21930	23060	23870	24710	25790	26600	27680	28480	29560	D	7390 LBS AT 130 PSI
	KG SINGLE				5210	5420	5700	5900	6110	6380	6580	6840	7040	7300	S	3650 KG AT 900 kPa
	KG DUAL				9560	9950	10460	10830	11210	11700	12070	12560	12920	13400	D	3350 KG AT 900 kPa
305/85R22.5 LRJ X® INCITY GRIP D SL X® INCITY Z SL	LBS SINGLE			11680	12200	12700	13220	13660	14140	14780	15140	15660			S	7830 LBS AT 120 PSI
	LBS DUAL			21420	22200	23120	24020	24860	25740	27120	27680	28640			D	7160 LBS AT 120 PSI
	KG SINGLE			5300	5540	5760	6000	6200	6420	6700	6820	7100			S	3550 KG AT 830 kPa
	KG DUAL			9720	10080	10480	10900	11280	11680	12300	12480	13000			D	3250 KG AT 830 kPa
315/80R22.5 LRL X® INCITY ENERGY Z	LBS SINGLE				13350	13910	14610	15140	15670	16350	16880	17570	18070	18740	S	9370 LBS AT 130 PSI
	LBS DUAL				25150	26190	27510	28520	29490	30820	31790	33060	34010	35270	D	8820 LBS AT 130 PSI
	KG SINGLE				6060	6310	6630	6870	7110	7420	7660	7970	8200	8500	S	4250 KG AT 900 kPa
	KG DUAL				11410	11880	12480	12940	13380	13980	14420	15000	15430	16000	D	4000 KG AT 900 kPa
315/80R22.5 LRL XZU®S2	LBS SINGLE				14240	14900	15560	16220	16860	17500	18140	18760	19380	20000	S	10000 LBS AT 130 PSI
	LBS DUAL				23540	24640	25740	26800	27880	28960	30000	31040	32040	33080	D	8270 LBS AT 130 PSI
	KG SINGLE				6460	6740	7080	7340	7580	7920	8180	8500	8740	9070	S	4535 KG AT 900 kPa
	KG DUAL				10680	11120	11720	12120	12560	13120	13520	14040	14480	15000	D	3750 KG AT 900 kPa
315/80R22.5 LRL X® LINE ENERGY Z COACH X® MULTIWAY 3D XZE® X® WORKS XDY® X® WORKS Z XDN®2 GRIP	LBS SINGLE				12830	13340	13880	14380	14880	15220	15840	16540	17380	18180	S	9090 LBS AT 130 PSI
	LBS DUAL				23360	24280	25580	26180	27080	27760	28840	30440	31640	33080	D	8270 LBS AT 130 PSI
	KG SINGLE				5820	6060	6300	6520	6740	6900	7180	7500	7880	8250	S	4125 KG AT 900 kPa
	KG DUAL				10600	11000	11600	11880	12280	12600	13080	13800	14360	15000	D	3750 KG AT 900 kPa
365/70R22.5 LRL XZA®	LBS SINGLE			14700	15420	16140	16860	17560	18260	18960	19640	20400	21000		S	10500 LBS AT 125 PSI
	LBS DUAL														D	
	KG SINGLE			6640	7020	7320	7680	7960	8240	8600	8880	9240	9500		S	4750 KG AT 860 kPa
	KG DUAL														D	
385/55R22.5 LRL X® MULTI T2	LBS SINGLE				14120	14780	15440	16080	16720	17360	17980	18600	19220	19840	S	9920 LBS AT 130 PSI
	LBS DUAL														D	
	KG SINGLE				6420	6680	7020	7280	7520	7860	8100	8440	8680	9000	S	4500 KG AT 900 kPa
	KG DUAL														D	
385/65R22.5 LRJ XZY® 3 Wide Base	LBS SINGLE		13440	13880	14700	15300	16100	16460	17020	17640	18100	18740			S	9370 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		6120	6300	6700	6940	7300	7480	7700	8000	8200	8500			S	4250 KG AT 830 kPa
	KG DUAL														D	
385/65R22.5 LRL X® MULTIWAY HD XZE®	LBS SINGLE				15710	16350	17190	17830	18450	19240	19860	20650	21250	22000	S	11000 LBS AT 130 PSI
	LBS DUAL														D	
	KG SINGLE				7130	7420	7800	8090	8370	8730	9010	9370	9640	10000	S	5000 KG AT 900 kPa
	KG DUAL														D	

MICHELIN INFLATION CHARTS FOR TRUCK TIRES

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WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
425/65R22.5 LRL XZY® 3 Wide Base	LBS SINGLE		15980	16540	17480	18200	18740	19580	20200	21000	21400	22800			S	11400 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		7280	7500	7960	8260	8500	8880	9160	9500	9760	10300			S	5150 KG AT 830 kPa
	KG DUAL														D	
425/65R22.5 LRL XFE™ Wide Base (Steer)	LBS SINGLE		15660	16480	17300	18120	18920	19700	20400	21200	22000	22800			S	11400 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		7080	7420	7840	8160	8580	8880	9200	9600	9900	10300			S	5150 KG AT 825 kPa
	KG DUAL														D	
445/50R22.5 LRL X ONE® LINE ENERGY T2	LBS SINGLE		14000	14740	15480	16200	16920	17640	18340	19020	19720	20400			S	10200 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		6360	6660	7040	7320	7700	7980	8260	8620	8900	9250			S	4625 KG AT 830 kPa
	KG DUAL														D	
445/50R22.5 LRL X ONE® LINE ENERGY D X ONE® LINE GRIP D X ONE® MULTI ENERGY T	LBS SINGLE		13880	14620	15360	16060	16780	17480	18180	18740	19560	20400			S	10200 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		6300	6640	6960	7280	7620	7940	8240	8500	8860	9250			S	4625 KG AT 830 kPa
	KG DUAL														D	
445/65R22.5 LRL XZY® 3 Wide Base	LBS SINGLE				18220	19080	19920	20800	21600	22400	23200	24000	24800	25600	S	12800 LBS AT 130 PSI
	LBS DUAL														D	
	KG SINGLE				8280	8600	9060	9380	9700	10140	10460	10880	11180	11600	S	5800 KG AT 900 kPa
	KG DUAL														D	
445/65R22.5 LRL XZL™ Wide Base	LBS SINGLE		17320	18180	18960	19740	20400	21200	22000	22800	23400	24600			S	12300 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		7900	8250	8640	8940	9250	9640	9920	10300	10580	11200			S	5600 KG AT 830 kPa
	KG DUAL														D	
455/55R22.5 LRL X ONE® LINE GRIP D X ONE® MULTI ENERGY T	LBS SINGLE		15000	15800	16580	17360	18120	18880	19640	20400	21200	22000			S	11000 LBS AT 120 PSI
	LBS DUAL														D	
	KG SINGLE		6800	7160	7520	7880	8220	8560	8900	9250	9580	10000			S	5000 KG AT 830 kPa
	KG DUAL														D	
455/55R22.5 LRM X ONE® XZU® S X ONE® XZY® 3	LBS SINGLE				16580	17360	18120	18880	19640	20400	21200	22000	22600	23400	S	11700 LBS AT 130 PSI
	LBS DUAL														D	
	KG SINGLE				7520	7880	8220	8560	8900	9250	9580	10000	10240	10600	S	5300 KG AT 900 kPa
	KG DUAL														D	

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WHEEL DIAMETER **24.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**		
11R24.5 LRG XTE® XZE 2™ Standard Sizes	LBS SINGLE	9640	10140	10620	11100	11680	12190	12700	13220				S	6610 LBS AT 105 PSI
	LBS DUAL	18640	19480	20280	21040	22040	22700	23360	24020				D	6005 LBS AT 105 PSI
	KG SINGLE	4380	4600	4820	5040	5300	5540	5780	6000				S	3000 KG AT 720 kPa
	KG DUAL	8440	8840	9200	9560	10000	10320	10640	10900				D	2725 KG AT 720 kPa
11R24.5 LRH X® LINE ENERGY T X® LINE ENERGY Z X® MULTI D X® MULTI ENERGY D X® WORKS GRIP D X® WORKS XDY® X® WORKS Z XDA®5+ XDN®2 XDS 2™ Standard Sizes XZE 2™ Standard Sizes	LBS SINGLE		10140	10620	11100	11680	12190	12700	13220	13580	13940	14320	S	7160 LBS AT 120 PSI
	LBS DUAL		19480	20280	21040	22040	22700	23360	24020	24820	25620	26440	D	6610 LBS AT 120 PSI
	KG SINGLE		4600	4820	5040	5300	5540	5780	6000	6160	6320	6500	S	3250 KG AT 830 kPa
	KG DUAL		8840	9200	9560	10000	10320	10640	10900	11280	11640	12000	D	3000 KG AT 830 kPa
275/80R24.5 LRG X® LINE ENERGY D X® LINE ENERGY T XDA®5+ XDN®2 XZE 2™ Standard Sizes	LBS SINGLE	9090	9540	9880	10420	10840	11350	11670	12080	12350			S	6175 LBS AT 110 PSI
	LBS DUAL	16540	17360	18160	18960	19720	20820	21240	21980	22700			D	5675 LBS AT 110 PSI
	KG SINGLE	4120	4320	4480	4720	4920	5150	5300	5480	5600			S	2800 KG AT 760 kPa
	KG DUAL	7480	7880	8240	8600	8960	9440	9640	9960	10300			D	2575 KG AT 760 kPa
275/80R24.5 LRH X® LINE ENERGY Z	LBS SINGLE		9540	9880	10420	10900	11350	11670	12080	12350	12880	13560	S	6780 LBS AT 120 PSI
	LBS DUAL		17360	18160	18960	19720	20820	21240	21980	22700	23440	24700	D	6175 LBS AT 120 PSI
	KG SINGLE		4320	4480	4720	4920	5150	5300	5480	5600	5840	6150	S	3075 KG AT 830 kPa
	KG DUAL		7880	8240	8600	8960	9440	9640	9960	10300	10640	11200	D	2800 KG AT 830 kPa

MICHELIN®
RV TIRES

MICHELIN

RV TIRES

AGILIS® CROSSCLIMATE®

Light Truck & Urban & On/Off Road

An all-weather Light Truck tire that offers exceptional durability, mileage, and wet braking for high stress commercial applications.

- Our Most Durable Heavy Duty Light Commercial Truck Tire – Professional-Grade Construction including CurbGard™ sidewall protectors that resist curb scrubbing in urban environments for improved sidewall durability.
- Improved Tread Life Under Heavy Loads:(1) – The Michelin® Agilis® CrossClimate® tire lasted 10% to 19% longer under heavy loads than three leading competitive commercial tires.* MaxPressure Profile™ optimizes the tire footprint for better wear life under high pressure, heavy loads, high torque, and stop and go driving. Additionally, the StabiliBlok™ design provides wider and longer tread blocks, to resist extreme torque while providing cool operating temperatures under full load at high speed.
- Excellent Wet(2) and Snow Traction(3) – The Michelin® Agilis® CrossClimate® tire offers shorter wet stopping distances and better snow traction than leading competitive long-warranty tires. SipeLock™ provides hundreds of biting edges for improved wet and snow traction without sacrificing tread block stability.

M&S (4)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT215/85R16	E	80033	12	106	14.1	359	30.4	772	8.5	216	6, 5.5, 7	9.9	251	684	2680	80	1215	550	2470	80	1120	550
LT225/75R16	E	72022	12	106	13.7	347	29.3	744	8.7	221	6, 7	10.2	259	710	2680	90	1215	620	2470	90	1120	620
LT235/85R16	E	65681	12	106	14.7	373	31.7	805	9.2	234	6.5, 6, 7.5	10.7	273	656	3042	80	1380	550	2778	80	1260	550
LT245/75R16	E	52347	12	106	14.2	360	30.5	775	9.8	249	7, 6.5, 8	11.3	288	683	3042	80	1380	550	2778	80	1260	550

1. Based on a treadwear test using tires in size LT265/70R17 121/118R on 2018 Ford F250 pickup trucks, loaded to 9800 lbs / 4,445 kilograms, versus the following competitors. Actual on-road results may vary. Average projected mileage to wearout: MICHELIN® Agilis® CrossClimate® : 24,500 miles / 39,429 kilometers, Bridgestone® Duravis™ M700 HD: 20,600 miles / 33,153 kilometers, Firestone® Transforce™ AT2: 22,000 miles / 35,406 kilometer, and Firestone® Transforce™ HT: 19,800 miles / 31,865 kilometer.
2. Based on internal wet braking tests from 50 mph / 80 km/h using tires in size LT265/70R17 121/118R on a 2018 Ford F-250 versus the following competitors. Actual on-road results may vary. Average distance to stop: MICHELIN® Agilis® CrossClimate® : 147.5 ft / 45m, Bridgestone® Duravis™ M700 HD: 151.6 ft / 46m, Firestone® Transforce™ AT2: 158.0 ft / 48m, and Firestone® Transforce™ HT: 169.3 ft / 52m.
3. Based on internal snow handling tests using tires in size LT265/70R17 121/118R on a 2018 Ford F-250 versus the following competitors. Actual on-road results may vary. Average acceleration performance (%): MICHELIN® Agilis® CrossClimate®: 100%, Bridgestone® Duravis™ M700 HD: 73%, Firestone® Transforce™ AT2: 91%, and Firestone® Transforce™ HT: 94%.
4. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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RV TIRES

AGILIS® CROSSCLIMATE® C-METRIC

Light Truck & Urban & On/Off Road

An all-weather Light Truck tire that offers exceptional durability, mileage, and wet braking for high stress commercial applications.

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M&S (3)

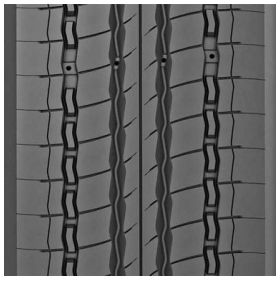
Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
195/75R16C	D	56761	12	106	12.9	327	27.4	696	7.7	196	5.5, 5, 6	8.7	220	757	2150	69	975	475	2040	69	925	475
205/65R15C	C	04143	12	118	11.9	303	25.4	645	8.2	208	6, 5.5, 6.5	9.2	233	817	1875	54	850	375	1765	54	800	375
225/75R16C	E	70411	12	106	13.7	347	29.3	744	8.7	221	6, 7	10.1	256	710	3195	83	1450	575	3085	83	1400	575
235/65R16C	E	09118	12	106	13.1	333	28.0	711	9.4	239	7, 6.5, 7.5	10.6	270	742	3195	83	1450	575	3000	83	1360	575

1. Based on internal wet braking tests from 50 MPH / 80 km/h using tires in size 235/65R16C 121/119R on a 2018 Ford Transit versus the following competitors. Actual on-road results may vary. Avg. Distance to Stop: MICHELIN® Agilis® CrossClimate® : 112.4 ft, Continental® VancoFourSeason™ : 137.0 ft, Hankook® DynaPro HT : 119.2 ft, General® Grabber™ HD : 132.4 ft.
2. Based on internal snow handling tests using tires in size 235/65R16C 121/119R on a 2016 Ford Transit versus the following competitors. Actual on-road results may vary. Avg. Acceleration Performance (%): MICHELIN® Agilis® CrossClimate® : 100%, Continental® VancoFourSeason™ : 88%, Hankook® DynaPro HT : 70%, General® Grabber™ HD : 84%.
3. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.

X® COACH HL Z

Regional & Bus/RV

Increased load capacity without compromising mileage, in an all-position tire designed for line haul and regional bus applications.(1)



- Increased load capacity – 7.5 tons for axles with single tires – due to patented Infini-Coil™, improved distribution of pressure across the tire width, and wide shoulder ribs.
- Exceptional handling from 4 wide longitudinal grooves and wide shoulder ribs.
- Extended casing life due to Infini-Coil™, a rectangular bead bundle, and full width protector ply.

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5	H	31078	18	75	19.3	491	41.5	1,055	11.8	299	9.00, 8.25	12.8	326	499	8270	123	3750	850	7160	123	3250	850

1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

RV TIRES

X® LINE ENERGY Z

Line Haul & Bus/RV

Our best just got better. Get 5% better rolling resistance than the MICHELIN® XZA3®+ EVERTREAD® tire[1] it replaces.

- 5% better rolling resistance than the ultra-fuel efficient MICHELIN® XZA3®+ EVERTREAD® tire.[2]
- Get more mileage without compromising fuel efficiency with the patent-pending Dual Compound Tread.
- Even wear to the end of tread life due to directional miniature sipes in the groove walls (directional to half life).
- Approved for use on EPA SmartWay® certified equipment and meets California CARB requirements.
- Maximum retreadability backed up with a 3-Retread Manufacturing Limited Casing Guarantee: 3 retreads or 700,000 miles or 7 years for the MICHELIN® X® LINE ENERGY Z tire when retreaded by an authorized Michelin Retread Technologies.

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5[3]	G	03363	19	75	19.3	489	41.3	1,048	11.2	285	8.25, 7.50	12.5	318	502	6175	105	2800	720	5840	105	2650	720
11R22.5[3]	H	06697	19	75	19.1	486	41.3	1,049	11.2	285	8.25, 7.50	12.5	318	503	6610	120	3000	830	6005	120	2725	830
275/80R22.5[3]	G	03885	19	75	18.7	475	40.1	1,018	11.0	280	8.25, 7.50	12.2	311	517	6175	110	2800	760	5675	110	2575	760
275/80R22.5[3]	H	66205	19	75	18.7	474	40.1	1,018	11.0	280	8.25, 7.50	12.2	311	517	7160	120	3250	830	6610	120	3000	830

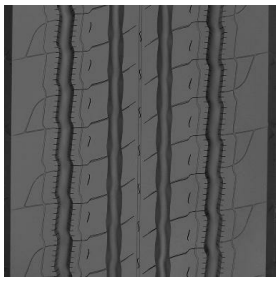
1. Based on internal rolling resistance tests using ISO 28580 in tire size 275/80R22.5.
2. Based on internal rolling resistance tests using ISO 28580 in tire size 275/80R22.5.
3. Directional tread design.

X® LINE ENERGY Z COACH

Line Haul & Bus/RV

Improved fuel-efficient[1], all position service in long distance applications such as Highway Coach.[2]

- The MICHELIN® X® LINE ENERGY Z tire new tread compound generated a 7% reduction in rolling resistance versus the MICHELIN® XZA®2 ENERGY 315/80R22.5 tire.
- Groove Wall Miniature Sipes – Helps fight irregular wear to improve mileage.
- Increased Net Contact Area – 3% greater contact area versus the MICHELIN® XZA®2 ENERGY tire meaning more rubber on the road.
- Zig-Zag Grooves – Improves traction in new and worn tire conditions.
- Full Width Elastic Protector Ply – Helps protect against penetrations, impacts breaks, and shocks for maximum casing durability.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
315/80R22.5[3]	L	09807	17	75	19.6	497	42.3	1,075	12.4	315	9.00, 9.75	13.8	351	491	9090	130	4125	900	8270	130	3750	900

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
3. Not approved for use with 8.25 wheel.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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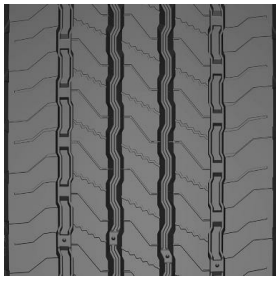
RV TIRES

X® MULTI Z - 275

Line Haul & Regional & Urban

Improved all-position radial optimized for RV chassis and specialty trailer in regional and line haul applications.

- 15% improvement in rolling resistance for improved wear and fuel savings.(1)
- 9% greater net contact area for improved grip.(2)
- Exceptional traction from zig zag sipe design which delivers outstanding wet grip on slippery surfaces.
- Outstanding resistance to stone damage due to groove bottom protectors as well as angled groove walls to reduce stone retention.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
275/70R22.5	J	31513	18	75	17.6	448	37.8	959	10.9	278	8.25, 7.50	12.2	311	547	6940	131	3150	900	6395	131	2900	900

1. Based on MICHELIN® X® MULTI Z tire versus MICHELIN® XZE2+® tire in size 275/70R22.5.
2. Based on MICHELIN® X® MULTI Z tire versus MICHELIN® XZE2+® tire in size 275/70R22.5.

X® MULTI Z 19.5

Regional & Line Haul & Urban

An all position radial tire optimized for a wide spectrum of regional applications.

- Increased Fuel Efficiency(1) - New tread compound lowers rolling resistance by 9% versus the MICHELIN® XZE®2+ tire.
- Reduced Irregular Wear - Directional tread design helps to reduce irregular wear.
- Enhanced Casing Life - Groove bottom protectors and stone ejectors help to reduce stone drilling to extend casing life.
- Extended Casing Life - Four-belt package helps to protect against shocks, impacts and road hazards.

(2)
M&S

Directional tread

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
265/70R19.5(3)	G	75319	16	81	15.8	400	34.0	864	10.2	259	7.50, 6.75	11.5	293	611	5510	112	2500	775	5205	112	2360	775
285/70R19.5(3)	H	31459	16	75	16.2	411	35.2	893	10.7	273	8.25, 7.50, 9.00	12.2	309	591	6610	123	3000	850	6175	123	2800	850

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.
3. Directional tread design.

Note: Wheel listed first is the measuring wheel.
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RV TIRES

X® MULTIWAY 3D XZE®

Regional & Line Haul & Urban

Improved fuel economy and mileage in an all-position tire for regional and coach applications.(1)

- Outstanding driving safety from improved braking, that reduces braking distances by 25%(2) and excellent traction from full-depth 3D Sipes that deliver improved grip(3) in challenging conditions.
- Outstanding fuel economy delivers 0.2 gallons per 100 miles in fuel savings(4), using an optimized tread design and materials.
- Tread life is improved 15% for front tires and 30% for rear tires(5) through use of a directional tread and optimized tread design.
- Full Width Elastic Protector Ply protects against penetrations, impacts breaks and shocks for maximum casing durability.

Directional tread

M&S (6)

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5(7)	H	07719	19	75	19.2	488	41.5	1,054	11.7	297	9.00, 8.25(7)	12.8	326	501	7830	123	3550	850	6940	123	3150	850
315/80R22.5(7)(8)	L	24903	21	75	19.7	502	42.6	1,081	12.4	316	9.00, 9.75	13.8	350	488	9090	130	4125	900	8270	130	3750	900

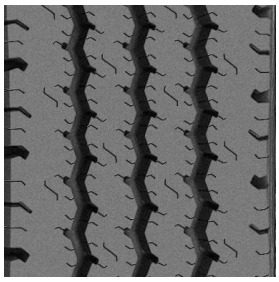
1. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.
2. Internal Michelin study. Vehicle fitted with MICHELIN® X® MULTIWAY 3D XZE® tires two-thirds worn compared with similarly worn MICHELIN® XZE®2+ tires for emergency braking (18 mph to 0 mph) on a wet, smooth, concrete surface.
3. Compared to MICHELIN® XZE®2+ tires.
4. Internal Michelin simulation, MICHELIN® X® MULTIWAY 3D XZE® tires compared to MICHELIN® XZE®2+ tires.
5. Internal Michelin simulation, MICHELIN® X® MULTIWAY 3D XZE® tires compared to MICHELIN® XZE®2+ tires.
6. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.
7. Directional tread design.
8. Not approved for use with 8.25 wheel.

XPS RIB®

Urban & Regional & Light Truck

All-steel, all-wheel-position highway rib light truck tire designed to deliver exceptional mileage and retreadability for commercial/fleet operations.

- Steel casing, reinforced steel bead helps deliver exceptional retreadability.
- Third steel belt helps provide puncture resistance for enhanced durability.
- Optimized rib tread designed to provide even tread wear and long mileage with low noise level.
- Sidewall protector helps provide resistance to sidewall damage from most curb scrubbing.
- Low rolling resistance casing and tread built for superior fuel economy.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT215/85R16(1)	E	39510	15	75	14.2	360	30.5	775	8.9	225	6.00, 5.50, 7.00	9.9	251	687	2680	80	1215	550	2470	80	1120	550
LT225/75R16(1)	E	08404	14	75	13.7	347	29.4	746	9.0	229	6.50, 6.00, 7.00	10.4	264	706	2680	80	1215	550	2470	80	1120	550
LT235/85R16(1)	E	13080	15	75	14.8	376	32.2	818	9.7	246	6.00, 7.00	10.6	269	655	3042	80	1380	550	2778	80	1260	550
LT245/75R16(1)	E	26848	15	75	14.4	366	30.6	777	9.6	244	7.00, 6.50, 8.00	11.3	288	676	3042	80	1380	550	2778	80	1260	550

1. See Warranty, Notes and Warning on Page 10.

Note: Wheel listed first is the measuring wheel.
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RV TIRES

XRV®

Line Haul & Bus/RV & Regional

All-position radial designed specifically for exceptional performance on recreational vehicles and motor homes in coach applications.(3)

- Wide, "see-through" grooves promote drainage efficiency to help improve traction on wet surfaces.
- Multi-siping helps deliver dependable grip and long, even wear.
- Enlarged sidewall characters make load/pressure information easier to read, facilitating proper use and maintenance.
- Stable tread with cool running compound helps generate reduced squirm and lower heat for improved handling and durability.

1

2

Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
235/80R22.5	G	87511	16	75	17.4	443	37.1	943	9.2	233	6.75, 7.50	10.3	262	556	4675	110	2120	760	4410	110	2000	760
255/80R22.5	G	59634	16	75	17.9	456	38.2	972	9.9	251	7.50, 8.25	11.2	284	541	5205	110	2360	760	4805	110	2180	760
305/70R22.5	L	93499	16	75	18.1	460	39.1	994	12.3	312	9.00, 8.25	13.5	343	531	7830	120	3550	830	6940	120	3150	830

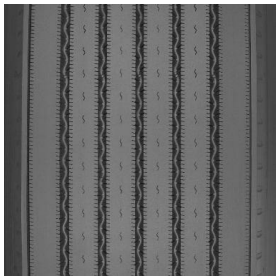
1. Standard Sizes
2. 305/70R22.5
3. “No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels.” US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

XZA®

Line Haul & Bus/RV

Fuel-efficient(1), all-position radial designed for long life steer axle service in line haul applications.

- No compromise rolling resistance delivered with Advanced Technology Compound, offering low rolling resistance with no compromise in wet traction, mileage, durability and even wear.
- Wet traction is improved using 3,000 trapezoidal micro sipes on the groove edges to help break water surface tension.
- Extra casing protection and stability comes from a five steel belt construction.
- Infini-Coil™ incorporates over 1/4 mile of steel cable to help eliminate casing growth and ensure a consistent footprint.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
365/70R22.5	L	52215	19	75	19.6	497	42.5	1,080	14.3	363	10.5	0.0		490	10500	125	4750	860				

1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

Note: Wheel listed first is the measuring wheel.
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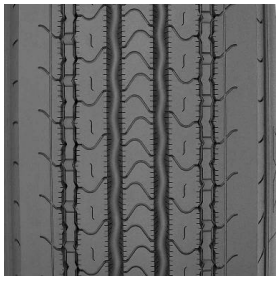
RV TIRES

XZA2® ENERGY

Line Haul & Bus/RV & Regional

Fuel-efficient(1), all-position radial designed for long life steer axle service in line haul applications.(2)

- Unique intermediate rib design helps combat the onset of irregular wear in highway service.
- Exceptional handling and responsiveness through optimized shoulder design.
- Traction and lateral control offered by miniature sipes and variable groove angles.
- Approved for use on EPA SmartWay® certified equipment and meets California's CARB requirements.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
295/80R22.5	H	76807	16	75	19.1	486	41.3	1,048	11.8	299	9.00, 8.25	13.2	335	503	7830	120	3550	830	6940	120	3150	830

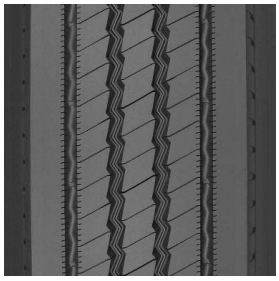
1. Based on industry standard rolling resistance testing of comparable tires or retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

XZE®

Regional & Bus/RV & Line Haul

Exceptional all-position radial with extra-wide, extra-deep tread designed to help deliver our best wear in high scrub regional and line haul applications.

- Beefy, buttressed shoulders help resist tearing and accelerated wear in high scrub applications.
- Extra strong curb guards help protect sidewalls against most impacts and abrasions for long casing life.
- Groove bottom protectors help deliver additional defense against stone drilling.
- Application specific, high scrub compound (chip and cut resistant in versions with ☆ designation) make the MICHELIN® XZE® our longest wearing regional steer tire.
- Deep, wide tread and optimized footprint shape help deliver long, even tread wear.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
10R22.5	G	99141	21	75	18.7	475	40.1	1,019	10.2	259	6.75, 7.50, 8.25	11.1	282	517	5675	115	2575	790	5355	115	2430	790
12R22.5★	H	85335	22	75	19.8	503	42.6	1,082	11.4	290	8.25, 9.00	13.2	335	486	7390	120	3350	830	6780	120	3075	830
225/70R19.5	G	91043	17	87	15.2	385	32.2	819	9.3	237	6.75, 6.00	9.7	246	640	3970	110	1800	760	3750	110	1700	760
245/70R19.5	H	75997	18	75	15.6	396	33.6	853	9.7	247	6.75, 7.50	10.7	272	619	4940	120	2240	830	4675	120	2120	830
255/70R22.5★	H	61737	18	75	17.2	437	36.7	932	10.2	260	8.25, 7.50	11.6	295	563	5510	120	2500	830	5070	120	2300	830
275/80R22.5	H	01637	22	75	18.7	475	40.2	1,022	11.1	282	8.25, 7.50	12.2	311	516	7160	120	3250	830	6610	120	3000	830

★ With chip and cut resistant tread compound.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

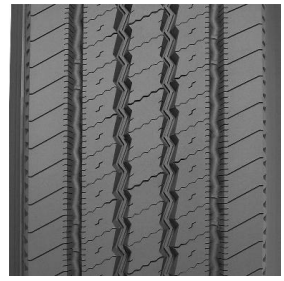
RV TIRES

XZE 2™ STANDARD SIZES

Regional & Bus/RV & Urban

Exceptional regional, all-position radial with extra-wide, extra-deep tread designed to help deliver our best wear in high scrub regional and urban applications.

- Enhanced application-specific compound to help promote resistance to aggressions and longer tread life.
- 6% wider tread for improved wear and handling (when compared to MICHELIN® XZE® tire).
- Matrix and micro sipes protect against irregular wear.
- Zig-zag grooves and sipes help increase traction in new and worn tire conditions.
- North American design.



Size	Load Range	Catalog Number	Tread Depth	Max Speed*	Loaded Radius		Overall Diameter		Overall Width**		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	mph	in	mm	in	mm	in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
11R22.5	G	78390	22	75	19.3	491	41.3	1,050	11.2	285	8.25, 7.50	12.5	318	501	6175	105	2800	720	5840	105	2650	720
11R22.5	H	67042	22	75	19.2	489	41.4	1,051	11.3	286	8.25, 7.50	12.5	318	501	6610	120	3000	830	6005	120	2725	830
275/80R22.5	G	55895	22	75	18.6	473	40.2	1,021	11.1	282	8.25, 7.50	12.2	311	517	6175	110	2800	760	5675	110	2575	760

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

MICHELIN INFLATION CHARTS FOR RV USAGE

For RV use only, Michelin displays the loads **per axle end** in the load and inflation tables, as we recommend weighing each axle end separately and using the heaviest end weight to determine the axle's cold inflation tire pressure. **For control of your RV, it is critical the tire pressures be the same across an axle, while NEVER exceeding the maximum pressure limit stamped on the wheels.**

To select the proper load and inflation table, locate your tire size in the following pages, then match your tire's sidewall markings to the table with the same sidewall markings. If your tire's sidewall markings do not match any table listed, please contact your Michelin dealer for the applicable load and inflation table.

Industry load and inflation standards are in a constant state of change, and Michelin continually updates its product information to reflect these changes. Printed material may not reflect the latest load and inflation standards.

In the load and inflation tables, SINGLE means an axle with one tire mounted on each end, while Dual means an axle with two tires mounted on each end. In an RV application, the loads indicated represent the total weight of an axle end. When one axle end weighs more than the other, use the heaviest of the two end weights to determine the unique tire pressure for all tires on the axle. The maximum cold pressure for each axle may vary, depending on their weights. These tables are applicable for all RV axles, whether or not they are power-driven.

WHEEL DIAMETER **15"**	**PSI**	**30**	**35**	**40**	**45**	**50**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**210**	**240**	**280**	**310**	**340**		
205/65R15C LRC Agilis® CrossClimate® C-Metric	LBS SINGLE	1175	1310	1485	1605	1730	S	1875 LBS AT 54 PSI
	LBS DUAL	2215	2465	2785	3030	3260	D	1765 LBS AT 54 PSI
	KG SINGLE	535	595	675	730	785	S	850 KG AT 375 kPa
	KG DUAL	1005	1120	1265	1375	1480	D	800 KG AT 375 kPa

MICHELIN INFLATION CHARTS FOR RV USAGE

In the load and inflation tables, SINGLE means an axle with one tire mounted on each end, while Dual means an axle with two tires mounted on each end. In an RV application, the loads indicated represent the total weight of an axle end. When one axle end weighs more than the other, use the heaviest of the two end weights to determine the unique tire pressure for all tires on the axle. The maximum cold pressure for each axle may vary, depending on their weights. These tables are applicable for all RV axles, whether or not they are power-driven.

WHEEL DIAMETER **16"**	PSI	30	35	40	45	50	55	60	65	70	75	80	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
	kPa	210	240	280	310	340	380	410	450	480	520	550		
195/75R16C LRD Agilis® CrossClimate® C-Metric	LBS SINGLE	1110	1245	1410	1530	1640	1795	1905	2060				S	2150 LBS AT 69 PSI
	LBS DUAL	2125	2355	2665	2895	3115	3415	3625	3900				D	2040 LBS AT 69 PSI
	KG SINGLE	505	565	640	695	745	815	865	935				S	975 KG AT 475 kPa
	KG DUAL	965	1070	1210	1315	1415	1550	1645	1770				D	925 KG AT 475 kPa
225/75R16C LRE Agilis® CrossClimate® C-Metric	LBS SINGLE		1585	1795	1950	2090	2290	2435	2620	2765	2950	3085	S	3195 LBS AT 83 PSI
	LBS DUAL		3060	3470	3765	4055	4430	4705	5070	5345	5695	5950	D	3085 LBS AT 83 PSI
	KG SINGLE		720	815	885	950	1040	1105	1190	1255	1340	1400	S	1450 KG AT 575 kPa
	KG DUAL		1390	1575	1710	1840	2010	2135	2300	2425	2585	2700	D	1400 KG AT 575 kPa
235/65R16C LRE Agilis® CrossClimate® C-Metric	LBS SINGLE		1585	1795	1950	2090	2290	2435	2620	2765	2950	3085	S	3195 LBS AT 83 PSI
	LBS DUAL		2975	3370	3655	3935	4305	4570	4925	5190	5530	5785	D	3000 LBS AT 83 PSI
	KG SINGLE		720	815	885	950	1040	1105	1190	1255	1340	1400	S	1450 KG AT 575 kPa
	KG DUAL		1350	1530	1660	1785	1955	2075	2235	2355	2510	2625	D	1360 KG AT 575 kPa
LT215/85R16 LRE Agilis® CrossClimate® XPS RIB®	LBS SINGLE		1495	1640	1785	1940	2055	2180	2335	2430	2550	2680	S	2680 LBS AT 80 PSI
	LBS DUAL		2720	2980	3250	3530	3723	3970	4300	4420	4640	4940	D	2470 LBS AT 80 PSI
	KG SINGLE		678	744	809	880	932	989	1059	1102	1156	1215	S	1215 KG AT 550 kPa
	KG DUAL		1234	1351	1474	1601	1689	1801	1950	2005	2104	2240	D	1120 KG AT 550 kPa
LT225/75R16 LRE XPS RIB®	LBS SINGLE			1650	1790	1940	2060	2190	2335	2440	2560	2680	S	2680 LBS AT 80 PSI
	LBS DUAL			3000	3260	3530	3750	3990	4300	4440	4660	4940	D	2470 LBS AT 80 PSI
	KG SINGLE			748	812	880	934	993	1059	1107	1161	1215	S	1215 KG AT 550 kPa
	KG DUAL			1361	1478	1601	1701	1810	1950	2014	2114	2241	D	1120 KG AT 550 kPa
LT225/75R16 LRE Agilis® CrossClimate®	LBS SINGLE			1650	1790	1940	2060	2190	2335	2440	2560	2680	S	2680 LBS AT 90 PSI
	LBS DUAL			3000	3260	3530	3750	3990	4300	4440	4660	4940	D	2470 LBS AT 90 PSI
	KG SINGLE			748	812	880	934	993	1059	1107	1161	1215	S	1215 KG AT 620 kPa
	KG DUAL			1361	1478	1601	1701	1810	1950	2014	2114	2241	D	1120 KG AT 620 kPa
LT235/85R16 LRE Agilis® CrossClimate® XPS RIB®	LBS SINGLE		1740	1862	1985	2205	2315	2425	2623	2755	2910	3042	S	3042 LBS AT 80 PSI
	LBS DUAL		3170	3390	3610	4012	4211	4410	4762	5014	5296	5556	D	2778 LBS AT 80 PSI
	KG SINGLE		790	845	900	1000	1050	1100	1190	1250	1320	1380	S	1380 KG AT 550 kPa
	KG DUAL		1440	1540	1640	1820	1910	2000	2160	2270	2400	2520	D	1260 KG AT 550 kPa
LT245/75R16 LRE Agilis® CrossClimate® XPS RIB®	LBS SINGLE		1700	1865	2030	2205	2335	2480	2625	2765	2900	3042	S	3042 LBS AT 80 PSI
	LBS DUAL		3090	3390	3690	4012	4250	4510	4762	5030	5280	5556	D	2778 LBS AT 80 PSI
	KG SINGLE		790	845	920	1000	1060	1125	1190	1255	1315	1380	S	1380 KG AT 550 kPa
	KG DUAL		1440	1537	1675	1820	1927	2045	2160	2280	2395	2520	D	1260 KG AT 550 kPa

MICHELIN INFLATION CHARTS FOR RV USAGE

In the load and inflation tables, SINGLE means an axle with one tire mounted on each end, while Dual means an axle with two tires mounted on each end. In an RV application, the loads indicated represent the total weight of an axle end. When one axle end weighs more than the other, use the heaviest of the two end weights to determine the unique tire pressure for all tires on the axle. The maximum cold pressure for each axle may vary, depending on their weights. These tables are applicable for all RV axles, whether or not they are power-driven.

WHEEL DIAMETER **19.5"**	**PSI**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**450**	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**		
225/70R19.5 LRG XZE®	LBS SINGLE	2755	2895	3040	3195	3315	3450	3640	3715	3845	3970			S	3970 LBS AT 110 PSI
	LBS DUAL	5200	5440	5720	6000	6230	6490	6830	6980	7230	7500			D	3750 LBS AT 110 PSI
	KG SINGLE	1250	1310	1380	1450	1500	1570	1650	1690	1740	1800			S	1800 KG AT 760 kPa
	KG DUAL	2360	2460	2600	2720	2820	2940	3100	3160	3280	3400			D	1700 KG AT 760 kPa
245/70R19.5 LRH XZE®	LBS SINGLE			3390	3570	3750	3925	4100	4270	4440	4610	4775	4940	S	4940 LBS AT 120 PSI
	LBS DUAL			6420	6760	7100	7430	7760	8080	8400	8720	9040	9350	D	4675 LBS AT 120 PSI
	KG SINGLE			1540	1610	1700	1770	1860	1930	2000	2090	2150	2240	S	2240 KG AT 830 kPa
	KG DUAL			2920	3060	3220	3360	3520	3660	3780	3960	4080	4240	D	2120 KG AT 830 kPa
265/70R19.5 LRG X® MULTI Z 19.5	LBS SINGLE	3570	3755	4000	4185	4430	4605	4850	5025	5190	5420			S	5510 LBS AT 112 PSI
	LBS DUAL	6735	7085	7560	7900	8365	8705	9145	9475	9810	10240			D	5205 LBS AT 112 PSI
	KG SINGLE	1620	1705	1815	1900	2010	2090	2200	2280	2355	2460			S	2500 KG AT 775 kPa
	KG DUAL	3055	3215	3430	3585	3795	3950	4150	4300	4450	4645			D	2360 KG AT 775 kPa
285/70R19.5 LRH X® MULTI Z 19.5	LBS SINGLE			4460	4670	4935	5135	5400	5595	5785	6050	6235	6490	S	6610 LBS AT 123 PSI
	LBS DUAL			8330	8715	9215	9590	10085	10445	10810	11285	11640	12110	D	6175 LBS AT 123 PSI
	KG SINGLE			2025	2120	2240	2330	2450	2540	2625	2745	2830	2945	S	3000 KG AT 850 kPa
	KG DUAL			3780	3955	4180	4350	4575	4740	4905	5120	5280	5495	D	2800 KG AT 850 kPa

MICHELIN INFLATION CHARTS FOR RV USAGE

In the load and inflation tables, SINGLE means an axle with one tire mounted on each end, while Dual means an axle with two tires mounted on each end. In an RV application, the loads indicated represent the total weight of an axle end. When one axle end weighs more than the other, use the heaviest of the two end weights to determine the unique tire pressure for all tires on the axle. The maximum cold pressure for each axle may vary, depending on their weights. These tables are applicable for all RV axles, whether or not they are power-driven.

WHEEL DIAMETER **22.5"**	PSI	70	75	80	85	90	95	100	105	110	115	120	125	130	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
	kPa	480	520	550	590	620	660	690	720	760	790	830	860	900		
10R22.5 LRG XZE®	LBS SINGLE	4080	4280	4480	4675	4850	5025	5205	5360	5515	5675				S	5675 LBS AT 115 PSI
	LBS DUAL	7720	8090	8460	8820	9170	9520	9880	10150	10420	10710				D	5355 LBS AT 115 PSI
	KG SINGLE	1850	1940	2030	2120	2200	2280	2360	2430	2500	2575				S	2575 KG AT 790 kPa
	KG DUAL	3500	3660	3820	4000	4160	4320	4480	4600	4720	4860				D	2430 KG AT 790 kPa
11R22.5 LRG X® LINE ENERGY Z XZE 2™ Standard Sizes	LBS SINGLE	4530	4770	4990	5220	5510	5730	5950	6175						S	6175 LBS AT 105 PSI
	LBS DUAL	8760	9160	9520	9900	10410	10830	11250	11680						D	5840 LBS AT 105 PSI
	KG SINGLE	2050	2160	2260	2370	2500	2600	2700	2800						S	2800 KG AT 720 kPa
	KG DUAL	3980	4160	4320	4500	4720	4920	5120	5300						D	2650 KG AT 720 kPa
11R22.5 LRH X® LINE ENERGY Z XZE 2™ Standard Sizes	LBS SINGLE		4770	4990	5220	5510	5730	5950	6175	6320	6465	6610			S	6610 LBS AT 120 PSI
	LBS DUAL		9160	9520	9900	10410	10830	11250	11680	11790	11900	12010			D	6005 LBS AT 120 PSI
	KG SINGLE		2160	2260	2370	2500	2600	2700	2800	2870	2940	3000			S	3000 KG AT 830 kPa
	KG DUAL		4160	4320	4500	4720	4920	5120	5300	5360	5420	5450			D	2725 KG AT 830 kPa
12R22.5 LRH XZE®★	LBS SINGLE		5200	5450	5690	6005	6205	6405	6610	6870	7130	7390			S	7390 LBS AT 120 PSI
	LBS DUAL		9980	10380	10780	11350	11570	11790	12010	12530	13050	13560			D	6780 LBS AT 120 PSI
	KG SINGLE		2360	2470	2580	2725	2820	2910	3000	3120	3240	3350			S	3350 KG AT 830 kPa
	KG DUAL		4520	4700	4880	5150	5260	5360	5450	5680	5920	6150			D	3075 KG AT 830 kPa
235/80R22.5 LRG XRV®	LBS SINGLE	3470	3645	3860	3975	4140	4300	4455	4610	4675					S	4675 LBS AT 110 PSI
	LBS DUAL	6320	6630	7050	7230	7530	7940	8110	8390	8820					D	4410 LBS AT 110 PSI
	KG SINGLE	1570	1650	1750	1800	1880	1950	2020	2090	2120					S	2120 KG AT 760 kPa
	KG DUAL	2860	3000	3200	3280	3420	3600	3680	3800	4000					D	2000 KG AT 760 kPa
255/70R22.5 LRH XZE®★	LBS SINGLE			4190	4370	4550	4675	4895	5065	5205	5400	5510			S	5510 LBS AT 120 PSI
	LBS DUAL			7940	8220	8550	8820	8910	9220	9350	9830	10140			D	5070 LBS AT 120 PSI
	KG SINGLE			1900	1980	2060	2120	2220	2300	2360	2450	2500			S	2500 KG AT 830 kPa
	KG DUAL			3600	3720	3880	4000	4040	4180	4240	4460	4600			D	2300 KG AT 830 kPa
255/80R22.5 LRG XRV®	LBS SINGLE	3875	4070	4300	4440	4620	4805	4975	5150	5205					S	5205 LBS AT 110 PSI
	LBS DUAL	7050	7410	7720	8080	8410	8820	9050	9370	9610					D	4805 LBS AT 110 PSI
	KG SINGLE	1760	1850	1950	2010	2100	2180	2260	2340	2360					S	2360 KG AT 760 kPa
	KG DUAL	3200	3360	3500	3660	3820	4000	4100	4260	4360					D	2180 KG AT 760 kPa
275/70R22.5 LRJ X® MULTI Z - 275	LBS SINGLE				4940	5170	5400	5625	5850	6070	6290	6510	6730	6940	S	6940 LBS AT 131 PSI
	LBS DUAL				9100	9530	9950	10370	10780	11190	11600	12000	12390	12790	D	6395 LBS AT 131 PSI
	KG SINGLE				2250	2340	2460	2550	2640	2750	2840	2950	3040	3150	S	3150 KG AT 900 kPa
	KG DUAL				4140	4300	4520	4680	4860	5060	5220	5440	5600	5800	D	2900 KG AT 900 kPa
275/80R22.5 LRG X® LINE ENERGY Z XZE 2™ Standard Sizes	LBS SINGLE	4500	4725	4940	5155	5370	5510	5780	5980	6175					S	6175 LBS AT 110 PSI
	LBS DUAL	8190	8600	9080	9380	9770	10140	10520	10880	11350					D	5675 LBS AT 110 PSI
	KG SINGLE	2040	2140	2240	2340	2440	2500	2620	2710	2800					S	2800 KG AT 760 kPa
	KG DUAL	3720	3900	4120	4260	4440	4600	4780	4940	5150					D	2575 KG AT 760 kPa
275/80R22.5 LRH X® LINE ENERGY Z XZE®	LBS SINGLE		4915	5175	5435	5690	5940	6190	6435	6680	6920	7160			S	7160 LBS AT 120 PSI
	LBS DUAL		9080	9560	10030	10500	10970	11430	11880	12330	12780	13220			D	6610 LBS AT 120 PSI
	KG SINGLE		2240	2340	2470	2570	2710	2800	2900	3030	3120	3250			S	3250 KG AT 830 kPa
	KG DUAL		4120	4320	4560	4760	5000	5180	5360	5600	5760	6000			D	3000 KG AT 830 kPa
295/80R22.5 LRH XZA2® ENERGY	LBS SINGLE		5375	5660	5940	6220	6495	6770	7040	7300	7570	7830			S	7830 LBS AT 120 PSI
	LBS DUAL		9530	10030	10530	11030	11510	12000	12470	12950	13420	13880			D	6940 LBS AT 120 PSI
	KG SINGLE		2440	2550	2700	2810	2960	3060	3170	3310	3410	3550			S	3550 KG AT 830 kPa
	KG DUAL		4340	4540	4800	4980	5240	5440	5620	5880	6060	6300			D	3150 KG AT 830 kPa
295/80R22.5 LRH X® COACH HL Z	LBS SINGLE		5575	5830	6170	6425	6755	6995	7240	7560	7790	8110			S	8270 LBS AT 123 PSI
	LBS DUAL		9665	10115	10700	11130	11705	12125	12540	13105	13510	14050			D	7160 LBS AT 123 PSI
	KG SINGLE		2530	2645	2800	2915	3065	3175	3285	3430	3535	3680			S	3750 KG AT 850 kPa
	KG DUAL		4385	4590	4855	5050	5310	5500	5690	5945	6130	6375			D	3250 KG AT 850 kPa
295/80R22.5 LRH X® MULTIWAY 3D XZE®	LBS SINGLE		5280	5520	5840	6080	6390	6620	6855	7150	7385	7680			S	7830 LBS AT 123 PSI
	LBS DUAL		9365	9795	10370	10790	11340	11750	12155	12695	13095	13620			D	6940 LBS AT 123 PSI
	KG SINGLE		2395	2505	2650	2760	2900	3005	3110	3245	3350	3485			S	3550 KG AT 850 kPa
	KG DUAL		4250	4445	4705	4895	5145	5330	5515	5760	5940	6180			D	3150 KG AT 850 kPa

★ With chip and cut resistant tread compound.

MICHELIN INFLATION CHARTS FOR RV USAGE

In the load and inflation tables, SINGLE means an axle with one tire mounted on each end, while Dual means an axle with two tires mounted on each end. In an RV application, the loads indicated represent the total weight of an axle end. When one axle end weighs more than the other, use the heaviest of the two end weights to determine the unique tire pressure for all tires on the axle. The maximum cold pressure for each axle may vary, depending on their weights. These tables are applicable for all RV axles, whether or not they are power-driven.

WHEEL DIAMETER **22.5"**	**PSI**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**	**125**	**130**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**480**	**520**	**550**	**590**	**620**	**660**	**690**	**720**	**760**	**790**	**830**	**860**	**900**		
305/70R22.5 LRL XRV®	LBS SINGLE		5375	5660	5940	6220	6495	6770	7040	7300	7570	7830			S	7830 LBS AT 120 PSI
	LBS DUAL		9530	10030	10530	11030	11510	12000	12470	12950	13420	13880			D	6940 LBS AT 120 PSI
	KG SINGLE		2440	2550	2700	2810	2960	3060	3170	3310	3410	3550			S	3550 KG AT 830 kPa
	KG DUAL		4340	4540	4800	4980	5240	5440	5620	5880	6060	6300			D	3150 KG AT 830 kPa
315/80R22.5 LRL X® LINE ENERGY Z COACH X® MULTIWAY 3D XZE®	LBS SINGLE				6415	6670	6940	7190	7440	7610	7920	8270	8690	9090	S	9090 LBS AT 130 PSI
	LBS DUAL				11680	12140	12790	13090	13540	13880	14420	15220	15820	16540	D	8270 LBS AT 130 PSI
	KG SINGLE				2910	3030	3150	3260	3370	3450	3590	3750	3940	4125	S	4125 KG AT 900 kPa
	KG DUAL				5300	5500	5800	5940	6140	6300	6540	6900	7180	7500	D	3750 KG AT 900 kPa
365/70R22.5 LRL XZA®	LBS SINGLE			7350	7710	8070	8430	8780	9130	9480	9820	10200	10500		S	10500 LBS AT 125 PSI
	LBS DUAL														D	
	KG SINGLE			3320	3510	3660	3840	3980	4120	4300	4440	4620	4750		S	4750 KG AT 860 kPa
	KG DUAL														D	

RV FRONT AXLE OVERLOAD

275/70R22.5 LRJ – 7.50" and 8.25" Wheel, Max Speed 75 mph[1,2]

The 275/70R22.5 MICHELIN® XZE®2+ and MICHELIN® XZA2® ENERGY LRJ truck tires have a maximum single tire load of 6,940 lbs at 130 psi with a maximum speed rating of 75 mph[1]. See Load and Inflation table below. Overloading the 275/70R22.5 LRJ tires (or any highway tire) and/or exceeding the speed rating of the tire is dangerous and may lead to tire failure.

											DESIGN MAXIMUM LOAD AND PRESSURE			
											PER AXLE END		PER TIRE	
7.50" or 8.25" Wheel, Max Speed 75 mph[1,2]	PSI	85	90	95	100	105	110	115	120	125	SINGLE	DUAL	SINGLE	DUAL
	kPa	590	620	660	690	720	760	790	830	860	900	830	900	830
275/70R22.5 LRJ XZA2® ENERGY XZE®2+	LBS SINGLE	4940	5170	5400	5625	5850	6070	6290	6510	6730	6940		6940	
	LBS DUAL	9710	10160	10610	11050	11490	11930	12360	12790			12790		6395
	KG SINGLE	2240	2345	2450	2550	2655	2755	2855	2955	3055	3150		3150	
	KG DUAL	4405	4610	4815	5010	5210	5410	5605	2800			5800		2900

295/60R22.5 LRJ XZA2® ENERGY – 9.00" Wheel, Max Speed 75 mph[1]

The recommended alternative fitment is the 295/60R22.5 LRJ MICHELIN® X® LINE™ ENERGY Z, which is designed to be used on a 9.00 x 22.5" wheel and at a maximum speed of 75 mph[1].
(Note that the maximum load and pressure under these conditions match those indicated on the sidewall.)

											DESIGN MAXIMUM LOAD AND PRESSURE	
											PER AXLE END	PER TIRE
9.00" Wheel, Max Speed 65 mph[1,2]	PSI	85	90	95	100	105	110	115	120	125	130	130
	kPa	590	620	660	690	720	760	790	830	860	900	900
295/60R22.5 LRJ XZA2® ENERGY	LBS SINGLE	5260	5505	5750	5990	6230	6465	6700	6930	7160	7390	7390
	LBS DUAL	9650	10100	10550	10990	11430	11860	12290	12720	13140	13560	6780
	KG SINGLE	2385	2495	2610	2715	2825	2930	3040	3145	3230	3350	3350
	KG DUAL	4375	4580	4785	4985	5185	5380	5575	5770	5940	6150	3075

295/60R22.5 LRJ XZA2® ENERGY – 9.00" Wheel, Max Speed 75 mph[1]

The maximum speed of the 295/60R22.5 LRJ MICHELIN® XZA2® ENERGY LRJ on a 9.00 x 22.5" wheel may be increased to 75 mph[1] by applying the following reduced load and pressure table.
(Note that the maximum load under these conditions is less than that indicated on the sidewall.)

										ADJUSTED MAXIMUM LOAD AND PRESSURE	
										PER AXLE END	PER TIRE
9.00" Wheel, Max Speed 75 mph[1,2]	PSI	90	95	100	105	110	115	120	125	130	130
	kPa	620	660	690	720	760	790	830	860	900	900
295/60R22.5 LRJ XZA2® ENERGY	LBS SINGLE	5260	5505	5750	5990	6230	6465	6700	6930	7160	7160
	LBS DUAL	9650	10100	10550	10990	11430	11860	12290	12720	13140	6570
	KG SINGLE	2385	2495	2610	2715	2825	2930	3040	3145	3230	3230
	KG DUAL	4375	4580	4785	4985	5185	5380	5575	5770	5940	2970

295/60R22.5 LRJ XZA2® ENERGY – 8.25" Wheel, Max Speed 75 mph[1]

In addition to running at 75 mph[1], the 295/60R22.5 LRJ MICHELIN® XZA2® ENERGY LRJ may be mounted on an 8.25 x 22.5" wheel by applying the following further reduced load and pressure table.
(Note that the maximum load and pressure under these conditions are less than that indicated on the sidewall.)

												ADJUSTED MAXIMUM LOAD AND PRESSURE	
												PER AXLE END	PER TIRE
8.25" Wheel, Max Speed 75 mph[1,2]	PSI	70	75	80	85	90	95	100	105	110	115	120	120
	kPa	480	520	550	590	620	660	690	720	760	790	830	830
295/60R22.5 LRJ XZA2® ENERGY	LBS SINGLE	4300	4515	4675	4925	5125	5355	5520	5710	5840	6085	6175	6175
	LBS DUAL	8080	8490	8820	8960	9330	9880	10050	10390	10710	11070	11350	5675
	KG SINGLE	1950	2050	2120	2230	2330	2430	2500	2590	2650	2760	2800	2800
	KG DUAL	3660	3860	4000	4060	4240	4480	4560	4720	4860	5020	5150	2575

The Michelin 295/60R22.5 XZA2® Energy LRJ (MSPN 33215) has been replaced with the 295/60R22.5 X® Line™ Energy Z LRJ (MSPN 35378) which is rated for 75 mph max speed and is only approved for use on 9.00" or 9.75" wheels. The 295/60R22.5 X® Line™ Energy Z LRJ is NOT approved for use on 8.25" wheels.

(1) Exceeding the lawful speed limit is neither recommended nor endorsed.
(2) Matches maximum load and pressure indicated on tire sidewall.
Load and inflation industry standards are in a constant state of change. Michelin continually updates its product information to reflect these changes. Therefore, printed material may not reflect the current load and inflation information.
Note: The actual load and inflation pressure must not exceed the wheel manufacturer's maximum conditions. Never exceed a wheel manufacturer's limits without permission of the component manufacturer.
Single configuration = 2 tires per axle. Dual configuration = 4 tires per axle. Loads are indicated per axle end for RV applications.
Always refer to the MICHELIN® Truck Tire Data Book (MWL40731) and MICHELIN® Truck Tire Service Manual (MWL00120) for proper tire selection, inflation, and maintenance. Both manuals can be found at www.michelintruck.com > Reference Materials > Manuals, Bulletins, & Warranties.

MICHELIN® COMMERCIAL LIGHT TRUCK TIRES

MICHELIN

COMMERCIAL LIGHT TRUCK TIRES

AGILIS® CROSSCLIMATE®

Commercial Tire

An all-weather Light Truck tire that offers exceptional durability, mileage, and wet braking for high stress commercial applications.

- Our Most Durable Heavy Duty Light Commercial Truck Tire – Professional-Grade Construction including CurbGard™ sidewall protectors that resist curb scrubbing in urban environments for improved sidewall durability.
- Improved Tread Life Under Heavy Loads:(1) – The Michelin® Agilis® CrossClimate® tire lasted 10% to 19% longer under heavy loads than three leading competitive commercial tires.* MaxPressure Profile™ optimizes the tire footprint for better wear life under high pressure, heavy loads, high torque, and stop and go driving. Additionally, the StabiliBlok™ design provides wider and longer tread blocks, to resist extreme torque while providing cool operating temperatures under full load at high speed.
- Excellent Wet(2) and Snow Traction(3) – The Michelin® Agilis® CrossClimate® tire offers shorter wet stopping distances and better snow traction than leading competitive long-warranty tires. SipeLock™ provides hundreds of biting edges for improved wet and snow traction without sacrificing tread block stability.

M&S (4)

Size	Load Range	Catalog Number	Tread Depth	Overall Width			Load/Speed Rating	Overall Diameter		Wheel Width Range	Min Dual Spacing**		Revs Per Mile (at 45 mph)	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	in	mm	wheel		in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT215/85R16(5)	E	80033	12	14.1	359	30.4	LT215/85R16	30.4	772	5.5 - 7.0	9.9	251	684	2680	80	1215	550	2470	80	1120	550
LT225/75R16(5)	E	72022	12	13.7	347	29.3	LT225/75R16	29.3	744	6.0 - 7.0	10.2	259	710	2680	90	1215	620	2470	90	1120	620
LT235/80R17(5)	E	09723	12	14.8	376	31.8	LT235/80R17	31.8	808	6.0 - 7.5	10.7	273	654	3085	80	1400	550	2835	80	1285	550
LT235/85R16(5)	E	65681	12	14.7	373	31.7	LT235/85R16	31.7	805	6.0 - 7.5	10.7	273	656	3042	80	1380	550	2778	80	1260	550
LT245/70R17(5)	E	42604	12	14.3	364	30.6	LT245/70R17	30.6	777	6.5 - 8.0	11.3	288	681	3000	80	1361	550	2755	80	1250	550
LT245/75R16(5)	E	52347	12	14.2	360	30.5	LT245/75R16	30.5	775	6.5 - 8.0	11.3	288	683	3042	80	1380	550	2778	80	1260	550
LT245/75R17(5)	E	09917	12	14.7	373	31.5	LT245/75R17	31.5	800	6.5 - 7.5	11.3	288	660	3195	80	1449	550	2910	80	1320	550
LT265/60R20(5)	E	50977	12	15.3	390	32.5	LT265/60R20	32.5	826	7.5 - 9.5	12.4	316	640	3195	80	1449	550	2910	80	1320	550
LT265/70R17(5)	E	36185	12	14.7	374	31.6	LT265/70R17	31.6	803	7.0 - 8.5	12.4	316	657	3195	80	1449	550	2910	80	1320	550
LT265/70R18(5)	E	05791	12	15.2	387	32.6	LT265/70R18	32.6	828	7.0 - 9.0	12.4	316	637	3525	80	1599	550	3195	80	1449	550
LT265/75R16(5)	E	10257	12	14.7	372	31.6	LT265/75R16	31.6	803	7.0 - 8.0	12.2	310	657	3415	80	1549	550	3085	80	1399	550
LT275/65R18(5)	E	57222	12	15.0	382	32.1	LT275/65R18	32.1	815	7.5 - 9.0	12.8	324	648	3415	80	1549	550	3085	80	1399	550
LT275/65R20(5)	E	15627	12	16.0	407	34.1	LT275/65R20	34.1	866	7.5 - 9.5	12.8	324	610	3750	80	1700	550	3415	80	1550	550
LT275/70R18(5)	E	76555	12	15.5	393	33.2	LT275/70R18	33.2	843	7.0 - 8.5	12.8	324	627	3640	80	1650	550	3305	80	1500	550
LT285/60R20(5)	E	19604	12	15.8	400	33.5	LT285/60R20	33.5	851	8.0 - 10.0	13.3	339	622	3640	80	1650	550	3305	80	1500	550
LT285/70R17(5)	E	83162	12	15.2	387	32.8	LT285/70R17	32.8	833	7.5 - 9.0	13.3	339	635	3195	80	1449	550	2910	80	1319	550

1. Based on a treadwear test using tires in size LT265/70R17 121/118R on 2018 Ford F250 pickup trucks, loaded to 9800 lbs / 4,445 kilograms, versus the following competitors. Actual on-road results may vary. Average projected mileage to wearout: MICHELIN® Agilis® CrossClimate® : 24,500 miles / 39,429 kilometers, Bridgestone® Duravis™ M700 HD: 20,600 miles / 33,153 kilometers, Firestone® Transforce™ AT2: 22,000 miles / 35,406 kilometer, and Firestone® Transforce™ HT: 19,800 miles / 31,865 kilometer.
2. Based on internal wet braking tests from 50 mph / 80 km/h using tires in size LT265/70R17 121/118R on a 2018 Ford F-250 versus the following competitors. Actual on-road results may vary. Average distance to stop: MICHELIN® Agilis® CrossClimate® : 147.5 ft / 45m, Bridgestone® Duravis™ M700 HD: 151.6 ft / 46m, Firestone® Transforce™ AT2: 158.0 ft / 48m, and Firestone® Transforce™ HT: 169.3 ft / 52m.
3. Based on internal snow handling tests using tires in size LT265/70R17 121/118R on a 2018 Ford F-250 versus the following competitors. Actual on-road results may vary. Average acceleration performance (%): MICHELIN® Agilis® CrossClimate®: 100%, Bridgestone® Duravis™ M700 HD: 73%, Firestone® Transforce™ AT2: 91%, and Firestone® Transforce™ HT: 94%.
4. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.
5. See Warranty, Notes and Warning on Page 8.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

COMMERCIAL LIGHT TRUCK TIRES

AGILIS® CROSSCLIMATE® C-METRIC

Commercial Tire

An all-weather Light Truck tire that offers exceptional durability, mileage, and wet braking for high stress commercial applications.

- Our Most Durable Heavy Duty Light Commercial Truck Tire - Professional-Grade Construction including CurbGard™ sidewall protectors that resist curb scrubbing in urban environments for improved sidewall durability.
- Excellent Tread Life Under Heavy Loads – MaxPressure Profile™ optimizes the tire footprint for better wear life under high pressure, heavy loads, high torque, and stop and go driving. Additionally, the StabiliBlok™ design provides wider and longer tread blocks, to resist extreme torque while providing cool operating temperatures under full load at high speed.
- Excellent Wet(1) and Snow Traction(2) – The Michelin® Agilis® CrossClimate® tire offers shorter wet stopping distances and better snow traction than leading competitive long-warranty tires. SipeLock™ provides hundreds of biting edges for improved wet and snow traction without sacrificing tread block stability.

M&S (3)

Size	Load Range	Catalog Number	Tread Depth	Overall Width			Load/Speed Rating	Overall Diameter		Wheel Width Range	Min Dual Spacing**		Revs Per Mile (at 45 mph)	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	in	mm	wheel		in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
185/60R15C(4)	C	02998	12	11.2	285	23.7	185/60R15C	23.7	602	5.5 - 6.0	-	-	876	1475	54	670	375	-	-	-	-
195/75R16C(4)	D	56761	12	12.9	327	27.4	195/75R16C	27.4	696	5.0 - 6.0	8.7	220	757	2150	69	975	475	2040	69	925	475
205/65R15C(4)	C	04143	12	11.9	303	25.4	205/65R15C	25.4	645	5.5 - 6.5	9.2	233	817	1875	54	850	375	1765	54	800	375
225/75R16C(4)	E	70411	12	13.7	347	29.3	225/75R16C	29.3	744	6.0 - 7.0	10.1	256	710	3195	83	1450	575	3085	83	1400	575
235/65R16C(4)	E	09118	12	13.1	333	28.0	235/65R16C	28.0	711	6.5 - 7.5	10.6	270	742	3195	83	1450	575	3000	83	1360	575

1. Based on internal wet braking tests from 50 MPH / 80 km/h using tires in size 235/65R16C 121/119R on a 2018 Ford Transit versus the following competitors. Actual on-road results may vary. Avg. Distance to Stop: MICHELIN® Agilis® CrossClimate® : 112.4 ft, Continental® VancoFourSeason™ : 137.0 ft, Hankook® DynaPro HT : 119.2 ft, General® Grabber™ HD : 132.4 ft.
2. Based on internal snow handling tests using tires in size 235/65R16C 121/119R on a 2016 Ford Transit versus the following competitors. Actual on-road results may vary. Avg. Acceleration Performance (%): MICHELIN® Agilis® CrossClimate® : 100%, Continental® VancoFourSeason™ : 88%, Hankook® DynaPro HT : 70%, General® Grabber™ HD : 84%.
3. Meets the USTMA (U.S. Tire Manufacturers Association) snow traction performance requirements. Meets the Tire and Rubber Association of Canada (TRAC) requirements for severe snow traction.
4. See Warranty, Notes and Warning on Page 8.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

COMMERCIAL LIGHT TRUCK TIRES

LTX® A/T2

Commercial Tire

A Light Truck and SUV all-terrain tire with a compound designed to resist chipping and tearing, providing excellent durability when the pavement ends.

- 60,000-Mile Limited Warranty(1) - The optimized contact patch shape, provided by MaxTouch Construction™, helps deliver extremely long tire life under the toughest conditions.
- 35% Longer Life on Gravel(2) - Tough off-road endurance capability of the MICHELIN® LTX® A/T2 tire helps it last at least 35% longer on gravel than two leading class competitors.
- Very Comfortable Ride - MICHELIN® Comfort Control Technology™ uses computer-optimized design and precision manufacturing to offer greatly reduced vibrations and road noise.

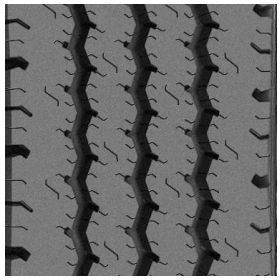
Size	Load Range	Catalog Number	Tread Depth	Overall Width			Load/Speed Rating	Overall Diameter		Wheel Width Range	Min Dual Spacing**		Revs Per Mile (at 45 mph)	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	in	mm	wheel		in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT235/80R17(3)	E	35847	13	0.0		31.8	LT235/80R17	31.8	808	6.0 - 7.5	-	-	654	3085	80	1400	550	2835	80	1285	550
LT245/75R16(3)	XL	52691	16	0.0		30.5	LT245/75R16	30.5	775	6.5 - 8.0	-	-	683	3042	80	1380	550	2778	80	1260	550
LT245/75R17(3)	XL	33918	16	0.0		31.5	LT245/75R17	31.5	800	6.5 - 7.5	-	-	660	3195	80	1449	550	2910	80	1320	550
LT245/75R17(3)	XL	21691	12	0.0		31.5	LT245/75R17	31.5	800	6.5 - 7.5	-	-	660	3195	80	1449	550	2910	80	1320	550
LT265/70R17(3)	XL	69422	12	0.0		31.7	LT265/70R17	31.7	805	7.0 - 8.5	-	-	657	3195	80	1449	550	2910	80	1320	550
LT265/70R17(3)	XL	67198	16	0.0		31.7	LT265/70R17	31.7	805	7.0 - 8.5	-	-	657	3195	80	1449	550	2910	80	1320	550
LT265/70R18(3)	XL	09068	12	0.0		32.6	LT265/70R18	32.6	828	7.0 - 9.0	-	-	637	3525	80	1599	550	3195	80	1449	550
LT265/75R16(3)	XL	03869	16	0.0		31.7	LT265/75R16	31.7	805	7.0 - 8.0	-	-	657	3415	80	1549	550	3085	80	1399	550
LT275/65R18(3)	XL	03822	16	0.0		32.1	LT275/65R18	32.1	815	7.5 - 9.0	-	-	648	3415	80	1549	550	3085	80	1399	550
LT275/65R20(3)	XL	04238	14	0.0		34.1	LT275/65R20	34.1	866	7.5 - 9.5	-	-	610	3750	80	1701	550	3415	80	1549	550
LT275/70R18(3)	XL	71991	15	0.0		33.2	LT275/70R18	33.2	843	7.0 - 8.5	-	-	628	3640	80	1651	550	3305	80	1499	550

1. See Michelin Owner's Manual for complete description.
2. Based on Michelin internal gravel endurance test results versus Bridgestone® Dueler™ A/T Revo 2 and Goodyear® Wrangler® Silent Armor tires on LT 265/70R17. Actual on-off road results may vary.
3. See Warranty, Notes and Warning on Page 8.

XPS RIB®

Commercial Tire

All-steel, all-wheel-position highway rib light truck tire designed to deliver exceptional mileage and retreadability for commercial/fleet operations.



- Steel casing, reinforced steel bead helps deliver exceptional retreadability.
- Third steel belt helps provide puncture resistance for enhanced durability.
- Optimized rib tread designed to provide even tread wear and long mileage with low noise level.
- Sidewall protector helps provide resistance to sidewall damage from most curb scrubbing.
- Low rolling resistance casing and tread built for superior fuel economy.

Size	Load Range	Catalog Number	Tread Depth	Overall Width			Load/Speed Rating	Overall Diameter		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile (at 45 mph)	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	in	mm	wheel		in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT215/85R16(1)	E	39510	15	14.2	360	30.5	LT215/85R16	30.5	775	6.00, 5.50, 7.00	9.9	251	687	2680	80	1215	550	2470	80	1120	550
LT225/75R16(1)	E	08404	14	13.7	347	29.4	LT225/75R16	29.4	746	6.50, 6.00, 7.00	10.4	264	706	2680	80	1215	550	2470	80	1120	550
LT235/85R16(1)	E	13080	15	14.8	376	32.2	LT235/85R16	32.2	818	6.00, 7.00	10.6	269	655	3042	80	1380	550	2778	80	1260	550
LT245/75R16(1)	E	26848	15	14.4	366	30.6	LT245/75R16	30.6	777	7.00, 6.50, 8.00	11.3	288	676	3042	80	1380	550	2778	80	1260	550

1. See Warranty, Notes and Warning on Page 8.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
Michelin continually updates its product information to reflect any changes in Industry Standards. Printed material may not reflect the current Load and Inflation information. Please visit www.michelintruck.com for the latest product information.
Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

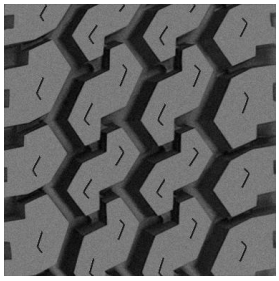
COMMERCIAL LIGHT TRUCK TIRES

XPS TRACTION®

Commercial Tire

All-steel, drive axle light truck tire designed to deliver excellent on/off road traction and retreadability for commercial/fleet operations.

- Aggressive tread designed to deliver good on/off road traction through mud, snow and rough terrain.
- Anti-chip compound in tread area helps resist cuts for enhanced durability.
- Sidewall protector helps provide resistance to sidewall damage from most curb scrubbing.
- Steel casing and reinforced steel bead offer exceptional retreadability.
- Third steel belt helps provide puncture resistance for enhanced durability.



Size	Load Range	Catalog Number	Tread Depth	Overall Width			Load/Speed Rating	Overall Diameter		Approved Wheels (Measuring wheel listed first)	Min Dual Spacing**		Revs Per Mile (at 45 mph)	Max Load and Pressure Single				Max Load and Pressure Dual			
			32nds	in	mm	wheel		in	mm		in	mm		lbs	psi	kg	kPa	lbs	psi	kg	kPa
LT215/85R16(1)	E	35260	17	14.3	363	30.7	LT215/85R16	30.7	780	6.00, 5.50, 7.00	9.9	252	681	2680	80	1215	550	2470	80	1120	550

1. See Warranty, Notes and Warning on Page 8.

Note: Wheel listed first is the measuring wheel.
(*) Exceeding the lawful speed limit is neither recommended nor endorsed.
(**) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
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Note: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions.Never exceed a wheel manufacturer's limits without permission from the component manufacturer.

MICHELIN INFLATION CHARTS FOR LIGHT TRUCK TIRES

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Loads are indicated per axle

WHEEL DIAMETER **15"**	**PSI**	**30**	**35**	**40**	**45**	**50**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**210**	**240**	**280**	**310**	**340**		
185/60R15C LRC Agilis® CrossClimate® C-Metric	LBS SINGLE	1960	2180	2460	2680	2880	S	1475 LBS AT 54 PSI
	LBS DUAL						D	
	KG SINGLE	890	990	1120	1220	1310	S	670 KG AT 375 kPa
	KG DUAL						D	
205/65R15C LRC Agilis® CrossClimate® C-Metric	LBS SINGLE	2350	2620	2970	3210	3460	S	1875 LBS AT 54 PSI
	LBS DUAL	4430	4930	5570	6060	6520	D	1765 LBS AT 54 PSI
	KG SINGLE	1070	1190	1350	1460	1570	S	850 KG AT 375 kPa
	KG DUAL	2010	2240	2530	2750	2960	D	800 KG AT 375 kPa

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WHEEL DIAMETER **16"**	**PSI**	**30**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**210**	**240**	**280**	**310**	**340**	**380**	**410**	**450**	**480**	**520**	**550**		
195/75R16C LRD Agilis® CrossClimate® C-Metric	LBS SINGLE	2220	2490	2820	3060	3280	3590	3810	4120				S	2150 LBS AT 69 PSI
	LBS DUAL	4250	4710	5330	5790	6230	6830	7250	7800				D	2040 LBS AT 69 PSI
	KG SINGLE	1010	1130	1280	1390	1490	1630	1730	1870				S	975 KG AT 475 kPa
	KG DUAL	1930	2140	2420	2630	2830	3100	3290	3540				D	925 KG AT 475 kPa
225/75R16C LRE Agilis® CrossClimate® C-Metric	LBS SINGLE		3170	3590	3900	4180	4580	4870	5240	5530	5900	6170	S	3195 LBS AT 83 PSI
	LBS DUAL		6120	6940	7530	8110	8860	9410	10140	10690	11390	11900	D	3085 LBS AT 83 PSI
	KG SINGLE		1440	1630	1770	1900	2080	2210	2380	2510	2680	2800	S	1450 KG AT 575 kPa
	KG DUAL		2780	3150	3420	3680	4020	4270	4600	4850	5170	5400	D	1400 KG AT 575 kPa
235/65R16C LRE Agilis® CrossClimate® C-Metric	LBS SINGLE		3170	3590	3900	4180	4580	4870	5240	5530	5900	6170	S	3195 LBS AT 83 PSI
	LBS DUAL		5950	6740	7310	7870	8610	9140	9850	10380	11060	11570	D	3000 LBS AT 83 PSI
	KG SINGLE		1440	1630	1770	1900	2080	2210	2380	2510	2680	2800	S	1450 KG AT 575 kPa
	KG DUAL		2700	3060	3320	3570	3910	4150	4470	4710	5020	5250	D	1360 KG AT 575 kPa
LT215/85R16 LRE Agilis® CrossClimate® XPS RIB® XPS TRACTION®	LBS SINGLE		2990	3280	3570	3880	4110	4360	4670	4860	5100	5360	S	2680 LBS AT 80 PSI
	LBS DUAL		5440	5960	6500	7060	7446	7940	8600	8840	9280	9880	D	2470 LBS AT 80 PSI
	KG SINGLE		1356	1488	1619	1760	1864	1978	2118	2204	2313	2430	S	1215 KG AT 550 kPa
	KG DUAL		2468	2703	2948	3202	3378	3602	3901	4010	4209	4480	D	1120 KG AT 550 kPa
LT225/75R16 LRE XPS RIB®	LBS SINGLE			3300	3580	3880	4120	4380	4670	4880	5120	5360	S	2680 LBS AT 80 PSI
	LBS DUAL			6000	6520	7060	7500	7980	8600	8880	9320	9880	D	2470 LBS AT 80 PSI
	KG SINGLE			1497	1624	1760	1869	1987	2118	2214	2322	2431	S	1215 KG AT 550 kPa
	KG DUAL			2722	2957	3202	3402	3620	3901	4028	4228	4482	D	1120 KG AT 550 kPa
LT225/75R16 LRE Agilis® CrossClimate®	LBS SINGLE			3300	3580	3880	4120	4380	4670	4880	5120	5360	S	2680 LBS AT 90 PSI
	LBS DUAL			6000	6520	7060	7500	7980	8600	8880	9320	9880	D	2470 LBS AT 90 PSI
	KG SINGLE			1497	1624	1760	1869	1987	2118	2214	2322	2431	S	1215 KG AT 620 kPa
	KG DUAL			2722	2957	3202	3402	3620	3901	4028	4228	4482	D	1120 KG AT 620 kPa
LT235/85R16 LRE Agilis® CrossClimate® XPS RIB®	LBS SINGLE		3480	3725	3970	4410	4630	4850	5246	5510	5820	6084	S	3042 LBS AT 80 PSI
	LBS DUAL		6340	6780	7220	8024	8422	8820	9524	10028	10592	11112	D	2778 LBS AT 80 PSI
	KG SINGLE		1580	1690	1800	2000	2100	2200	2380	2500	2640	2760	S	1380 KG AT 550 kPa
	KG DUAL		2880	3080	3280	3640	3820	4000	4320	4540	4800	5040	D	1260 KG AT 550 kPa
LT245/75R16 LRE Agilis® CrossClimate® XPS RIB®	LBS SINGLE		3400	3730	4060	4410	4670	4960	5250	5530	5800	6084	S	3042 LBS AT 80 PSI
	LBS DUAL		6180	6780	7380	8024	8500	9020	9525	10060	10560	11112	D	2778 LBS AT 80 PSI
	KG SINGLE		1580	1690	1840	2000	2120	2250	2380	2510	2630	2760	S	1380 KG AT 550 kPa
	KG DUAL		2880	3075	3350	3640	3855	4090	4320	4560	4790	5040	D	1260 KG AT 550 kPa
LT245/75R16 LRXL LTX® A/T2	LBS SINGLE		3400	3730	4060	4410	4670	4960	5250	5530	5800	6084	S	3042 LBS AT 80 PSI
	LBS DUAL												D	
	KG SINGLE		1580	1690	1840	2000	2120	2250	2380	2510	2630	2760	S	1380 KG AT 550 kPa
	KG DUAL												D	
LT265/75R16 LRE Agilis® CrossClimate®	LBS SINGLE		3820	4200	4560	4940	5250	5580	6000	6210	6520	6830	S	3415 LBS AT 80 PSI
	LBS DUAL		6960	7640	8300	9080	9560	10160	11020	11300	11860	12340	D	3085 LBS AT 80 PSI
	KG SINGLE		1578	1732	1882	2058	2168	2304	2498	2562	2690	2798	S	1549 KG AT 550 kPa
	KG DUAL		3464	3808	4136	4480	4760	5060	5444	5632	5912	6196	D	1399 KG AT 550 kPa
LT265/75R16 LRXL LTX® A/T2	LBS SINGLE		3820	4200	4560	4940	5250	5580	6000	6210	6520	6830	S	3415 LBS AT 80 PSI
	LBS DUAL												D	
	KG SINGLE		1578	1732	1882	2058	2168	2304	2498	2562	2690	2798	S	1549 KG AT 550 kPa
	KG DUAL												D	

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WHEEL DIAMETER **17"**	**PSI**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**240**	**280**	**310**	**340**	**380**	**410**	**450**	**480**	**520**	**550**		
LT235/80R17 LRE LTX® A/T2	LBS SINGLE	3450	3790	4110	4540	4810	5090	5360	5630	5900	6170	S	3085 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1424	1564	1696	1850	1986	2100	2240	2322	2436	2572	S	1400 KG AT 550 kPa
	KG DUAL											D	
LT235/80R17 LRE Agilis® CrossClimate®	LBS SINGLE	3450	3790	4110	4540	4810	5090	5360	5630	5900	6170	S	3085 LBS AT 80 PSI
	LBS DUAL	6280	6900	7480	8160	8760	9260	9880	10240	10740	11340	D	2835 LBS AT 80 PSI
	KG SINGLE	1424	1564	1696	1850	1986	2100	2240	2322	2436	2572	S	1400 KG AT 550 kPa
	KG DUAL	3128	3436	3728	4116	4364	4616	4860	5108	5352	5596	D	1285 KG AT 550 kPa
LT245/70R17 LRE Agilis® CrossClimate®	LBS SINGLE	3380	3710	4020	4410	4630	4920	5200	5480	5750	6000	S	3000 LBS AT 80 PSI
	LBS DUAL	6160	6760	7320	7940	8420	8960	9340	9980	10460	11020	D	2755 LBS AT 80 PSI
	KG SINGLE	1570	1685	1825	2000	2100	2230	2360	2485	2610	2720	S	1361 KG AT 550 kPa
	KG DUAL	2860	3065	3320	3600	3820	4065	4240	4525	4745	5000	D	1250 KG AT 550 kPa
LT245/75R17 LRE Agilis® CrossClimate®	LBS SINGLE	3540	3890	4220	4540	4860	5190	5510	5800	6100	6390	S	3195 LBS AT 80 PSI
	LBS DUAL	6440	7080	7680	8160	8840	9440	10140	10560	11100	11640	D	2910 LBS AT 80 PSI
	KG SINGLE	1460	1606	1742	1850	2004	2140	2300	2394	2518	2640	S	1449 KG AT 550 kPa
	KG DUAL	3212	3528	3828	4116	4408	4708	4996	5260	5532	5796	D	1320 KG AT 550 kPa
LT245/75R17 LRXL LTX® A/T2	LBS SINGLE	3540	3890	4220	4540	4860	5190	5510	5800	6100	6390	S	3195 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1460	1606	1742	1850	2004	2140	2300	2394	2518	2640	S	1449 KG AT 550 kPa
	KG DUAL											D	
LT265/70R17 LRE Agilis® CrossClimate®	LBS SINGLE	3780	4150	4510	4940	5190	5520	5820	6010	6200	6390	S	3195 LBS AT 80 PSI
	LBS DUAL	6880	7560	8200	9080	9440	10040	10720	10940	11280	11640	D	2910 LBS AT 80 PSI
	KG SINGLE	1560	1714	1860	2058	2140	2276	2430	2480	2558	2640	S	1449 KG AT 550 kPa
	KG DUAL	3428	3764	4092	4480	4708	5008	5280	5452	5624	5796	D	1320 KG AT 550 kPa
LT265/70R17 LRXL LTX® A/T2	LBS SINGLE	3780	4150	4510	4940	5190	5520	5820	6010	6200	6390	S	3195 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1560	1714	1860	2058	2140	2276	2430	2480	2558	2640	S	1449 KG AT 550 kPa
	KG DUAL											D	
LT285/70R17 LRE Agilis® CrossClimate®	LBS SINGLE	4210	4630	5020	5510	5780	6140	6390				S	3195 LBS AT 80 PSI
	LBS DUAL	7660	8420	9140	10140	10520	11180	11640				D	2910 LBS AT 80 PSI
	KG SINGLE	1736	1910	2072	2300	2386	2536	2640				S	1449 KG AT 550 kPa
	KG DUAL	3820	4200	4552	4996	5244	5568	5796				D	1319 KG AT 550 kPa

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WHEEL DIAMETER **18"**	**PSI**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**240**	**280**	**310**	**340**	**380**	**410**	**450**	**480**	**520**	**550**		
LT265/70R18 LRE Agilis® CrossClimate®	LBS SINGLE	3920	4310	4680	5070	5380	5720	6170	6370	6690	7050	S	3525 LBS AT 80 PSI
	LBS DUAL	7140	7840	8520	9340	9800	10420	11340	11600	12180	12780	D	3195 LBS AT 80 PSI
	KG SINGLE	1778	1954	2122	2300	2440	2594	2798	2888	3034	3198	S	1599 KG AT 550 kPa
	KG DUAL	3240	3556	3864	4236	4444	4724	5144	5260	5524	5796	D	1449 KG AT 550 kPa
LT265/70R18 LRXL LTX® A/T2	LBS SINGLE	3920	4310	4680	5070	5380	5720	6170	6370	6690	7050	S	3525 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1778	1954	2122	2300	2440	2594	2798	2888	3034	3198	S	1599 KG AT 550 kPa
	KG DUAL											D	
LT275/65R18 LRE Agilis® CrossClimate®	LBS SINGLE	3880	4260	4620	5070	5320	5650	6000	6300	6610	6830	S	3415 LBS AT 80 PSI
	LBS DUAL	7060	7760	8400	9340	9680	10280	11020	11460	12040	12340	D	3085 LBS AT 80 PSI
	KG SINGLE	1600	1760	1904	2118	2196	2332	2498	2598	2730	2798	S	1549 KG AT 550 kPa
	KG DUAL	3520	3864	4192	4600	4824	5124	5444	5716	5996	6196	D	1399 KG AT 550 kPa
LT275/65R18 LRXL LTX® A/T2	LBS SINGLE	3880	4260	4620	5070	5320	5650	6000	6300	6610	6830	S	3415 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1600	1760	1904	2118	2196	2332	2498	2598	2730	2798	S	1549 KG AT 550 kPa
	KG DUAL											D	
LT275/70R18 LRE Agilis® CrossClimate®	LBS SINGLE	4140	4540	4940	5360	5680	6040	6390	6720	7060	7280	S	3640 LBS AT 80 PSI
	LBS DUAL	7540	8260	9000	9880	10340	11000	11640	12240	12840	13220	D	3305 LBS AT 80 PSI
	KG SINGLE	1710	1874	2040	2240	2344	2494	2640	2776	2912	2998	S	1650 KG AT 550 kPa
	KG DUAL	3756	4116	4480	4860	5152	5480	5796	6096	6404	6604	D	1500 KG AT 550 kPa
LT275/70R18 LRXL LTX® A/T2	LBS SINGLE	4140	4540	4940	5360	5680	6040	6390	6720	7060	7280	S	3640 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1710	1874	2040	2240	2344	2494	2640	2776	2912	2998	S	1651 KG AT 550 kPa
	KG DUAL											D	

MICHELIN INFLATION CHARTS FOR LIGHT TRUCK TIRES

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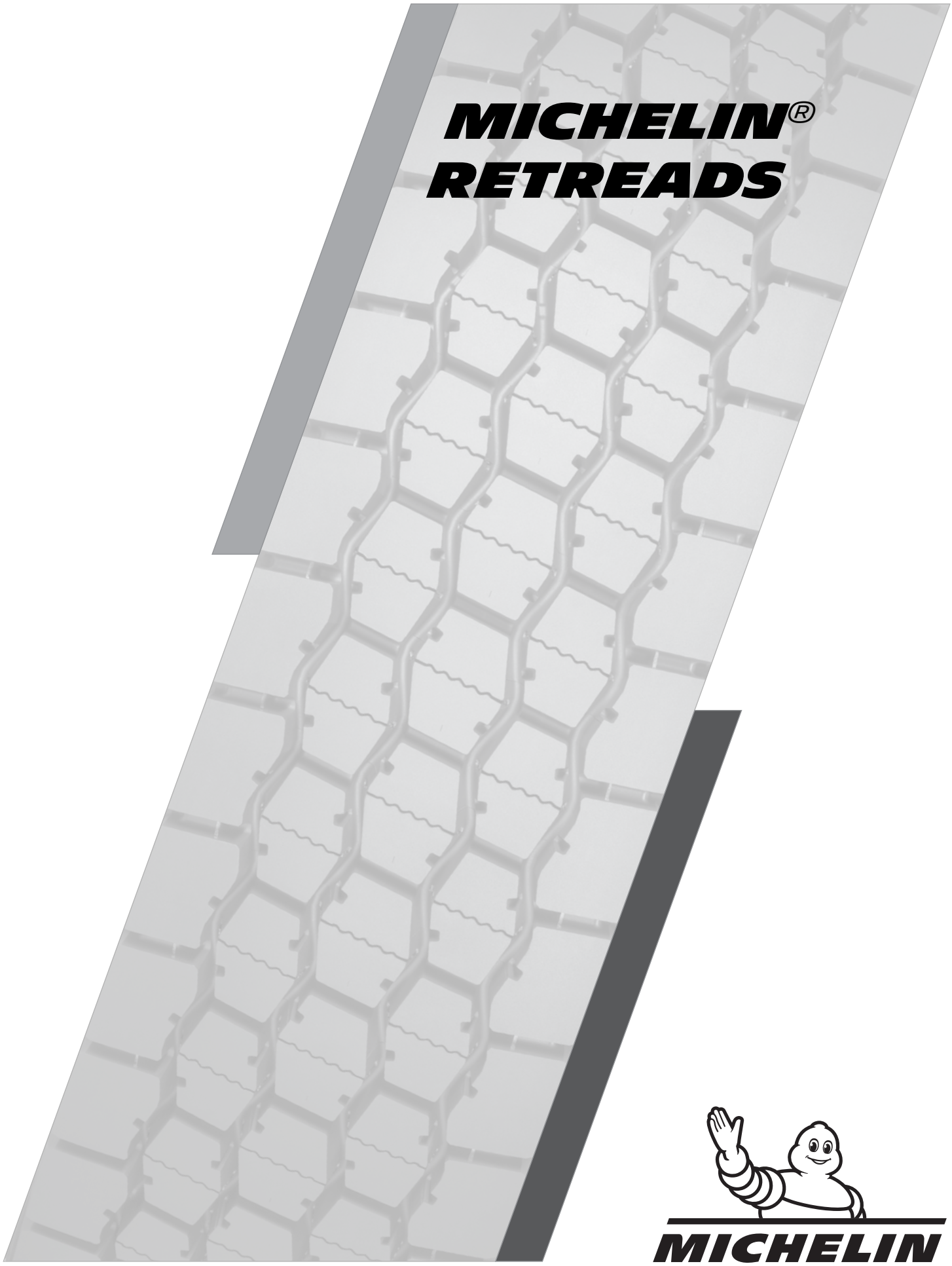
WHEEL DIAMETER **20"**	**PSI**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**MAXIMUM LOAD AND PRESSURE ON SIDEWALL**	
	kPa	**240**	**280**	**310**	**340**	**380**	**410**	**450**	**480**	**520**	**550**		
LT265/60R20 LRE Agilis® CrossClimate®	LBS SINGLE	3650	4000	4350	4670	5000	5320	5670	5920	6220	6390	S	3195 LBS AT 80 PSI
	LBS DUAL	6640	7280	7920	8600	9100	9680	10400	10780	11320	11640	D	2910 LBS AT 80 PSI
	KG SINGLE	1656	1814	1972	2118	2268	2412	2572	2684	2820	2898	S	1449 KG AT 550 kPa
	KG DUAL	3012	3300	3592	3900	4128	4392	4716	4888	5132	5280	D	1320 KG AT 550 kPa
LT275/65R20 LRE Agilis® CrossClimate®	LBS SINGLE	4160	4560	4950	5360	5700	6060	6390	6750	7080	7500	S	3750 LBS AT 80 PSI
	LBS DUAL	7580	8300	9000	9880	10380	11020	11640	12280	12880	13660	D	3415 LBS AT 80 PSI
	KG SINGLE	1718	1882	2040	2240	2354	2498	2640	2784	2920	3098	S	1700 KG AT 550 kPa
	KG DUAL	3772	4136	4488	4860	5172	5496	5796	6124	6420	6804	D	1550 KG AT 550 kPa
LT275/65R20 LRXL LTX® A/T2	LBS SINGLE	4160	4560	4950	5360	5700	6060	6390	6750	7080	7500	S	3750 LBS AT 80 PSI
	LBS DUAL											D	
	KG SINGLE	1718	1882	2040	2240	2354	2498	2640	2784	2920	3098	S	1701 KG AT 550 kPa
	KG DUAL											D	
LT285/60R20 LRE Agilis® CrossClimate®	LBS SINGLE	4040	4440	4820	5200	5550	5900	6170	6570	6890	7280	S	3640 LBS AT 80 PSI
	LBS DUAL	7360	8080	8780	9340	10100	10740	11340	11960	12540	13220	D	3305 LBS AT 80 PSI
	KG SINGLE	1832	2014	2186	2358	2518	2676	2798	2980	3124	3302	S	1650 KG AT 550 kPa
	KG DUAL	3336	3664	3980	4236	4580	4872	5144	5424	5688	5996	D	1500 KG AT 550 kPa

MICHELIN® RETREADS



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MICHELIN® RETREADS QUICK REFERENCE TREAD GUIDE
PRODUCT AVAILABILITY TREAD DEPTH

Standard Retread Sizes																													
Tread Size	**140**	**150**	**160**	**168**	**170**	**177**	**180**	**185**	**190**	**194**	**195**	**200**	**203**	**205**	**210**	**211**	**215**	**219**	**220**	**225**	**230**	**232**	**238**	**240**	**245**	**250**	**252**	**260**	**270**	**280**
CD-LL															14				14		14									
IT2												11			11				11		11									
MD XDN®2									18			18			20				20		20									
X® LINE ENERGY D																			21		21			21						
X® LINE ENERGY T												11			11				11		11			11		11				
X® LINE ENERGY T SIPED												11			11				11		11			11		11				
X® MULTI D																			28		28			28						
X® MULTI ENERGY D																			21		21			21						
XD4®															28				28		28									
XDA2® 19 AT(1)																		19		19										
XDA2® 23 AT(1)																23		23		23		23								
XDA-HT™ High Torque															28				28		28			28		28		28		
XDC® 22																22		22		22										
XDE® M/S					18		18		20			20			22				22		22									
XDHT®							19			23			23			23		23		23		23		23						
XDHT® Siped																23		23		23										
XDN®2																			27		27			27						
XDS® 2+															25				25		25			25		25				
XDU®S																			32		32			32		32			32	
XDY®													26			26		26		26		26	26	32			32			
XDY-1™																30		30		30		30	30							
XDY-EX™																			32		32			32						
XM+S4®																21		21		21										
XTA®																								16				16		
XTA®-2										11			11			11		11		11				11						
XTA®-2 Siped																11		11		11				11						
XTY® SA														22			22													
XZA®	13	13	13		13		13			15			15			15		15		15				20						
XZA® Siped							13			15			15			15		15		15										
XZE®2																								20		20		20		
XZE®				16		18				18			18			18		18		18										
XZE® Siped										18						18		18		18										
XZE® SA								18			18			18			18			18					18					
XZU®2																								24		24				
XZU®S																			26		26			26		26			26	26
XZY®													18			18		18		18		18	18			20				
XZY®3															24				24		24			24		24			24	

For up-to-date product information please visit www.michelintruck.com

(1) AT designated Advanced Technology™ Compounds for fuel savings.

- **Federal Motor Carrier Safety Regulations, 9 C.F.R. § 395.75 (d), specify that "no bus shall be operated with regrooved, recapped or retreaded tires on the front wheels."**

- **Retread tread selection should always consider the casing's original service application design and speed limit as published in that tire manufacturer's data book. Applying treads intended for a more severe service / speed application than the original casing design or that would imply a higher speed service than the casing's original speed rating, is generally not recommended.**

MICHELIN® RETREADS QUICK REFERENCE TREAD GUIDE
PRODUCT AVAILABILITY TREAD DEPTH

Wide Base and MICHELIN® X One® Retread Sizes							
Tread Size	**290/345(1)**	**320/365(1)**	**350/395(1)**	**375/425(1)**	**385/435(1)**	**390**	**400**
X ONE® LINE ENERGY D				22			
X ONE® LINE ENERGY T				13			
X ONE® LINE GRIP D				27	27		
X ONE® MULTI ENERGY T				15	15		
X ONE® XDA-HT™						26	26
X ONE® XZU® S					23		
X ONE® XZU® S+					29		
XTE2® Wide Base	20						
XZA® Wide Base	19	19					
XZH™ Wide Base			20				
XZL® Wide Base			30				
XZY® Wide Base		20					
XZY®3 Wide Base	22						

For up-to-date product information please visit www.michelintruck.com

(1) Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

- **Retread tread selection should always consider the casing's original service application design and speed limit as published in that tire manufacturer's data book. Applying treads intended for a more severe service / speed application than the original casing design or that would imply a higher speed service than the casing's original speed rating, is generally not recommended.**

Custom Mold Retread Sizes					
Tread Size	**11R22.5**	**11R24.5**	**275/80R22.5**	**275/80R24.5**	**445/50R22.5**
X® LINE ENERGY D			21		
X ONE® LINE ENERGY D					21
X ONE® XTA®					13
X ONE® XTE®					16
XDA2® 23 AT(1)	23	23	23	23	
XDHT®	23	23	23	23	
XDN®	26				
XDS® 2	25				
XDS®	25	25			
XT-1® AT(1)	12	12	12	12	
XTA®-1	11	11	11	11	
XZA®	15	15	15	15	
XZE®	18	18	18	18	

(1) AT designated Advanced Technology™ compounds for fuel savings.

Please contact your local MICHELIN representative or MRT franchise locations for size and tread design availability.

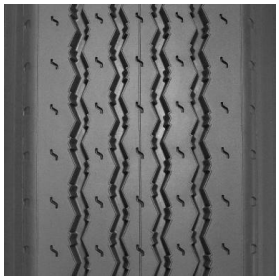
ALL-POSITION RETREADS

XZA® CUSTOM MOLD RETREAD

Line Haul & Regional

All-wheel position tread design with proven versatility and exceptional resistance to scrub and abrasion for line haul and regional applications.

- Solid shoulder to withstand scrub and abrasion.
- Designed for long mileage and even wear.
- Also available as a Pre-Mold retread.
- 15/32nds original tread depth



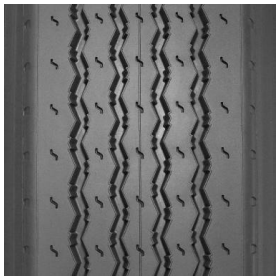
Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	15/32

XZA® PRE-MOLD RETREAD

Line Haul & Regional

All-wheel position tread design with proven versatility and exceptional resistance to scrub and abrasion for line haul and regional applications.

- Solid shoulder to withstand scrub and abrasion.
- Designed for long mileage and even wear.
- Available siped.
- Also available as a Custom Mold retread.
- 13/32nds, 15/32nds or 20/32nds original tread depth, depending on tread width.



Tread Width	Tread Depth
140 mm 150 mm 160 mm 170 mm 180 mm	13/32
194 \ 7.0 203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5	15/32
240 mm	20/32

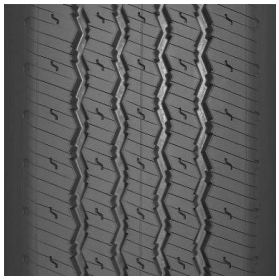
ALL-POSITION RETREADS

XZA® SIPED PRE-MOLD RETREAD

Line Haul & Regional

All-wheel position tread design with proven versatility and exceptional resistance to scrub and abrasion for line haul and regional applications.

- Solid shoulder to withstand scrub and abrasion.
- Designed for long mileage and even wear.
- Also available as a Pre-Mold and Custom Mold retread.
- 13/32nds or 15/32nds original tread depth, depending on tread width.



Tread Width	Tread Depth
180 mm	13/32
194 \ 7.0 203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5	15/32

XZE® CUSTOM MOLD RETREAD

Line Haul & Regional

All-position retread designed for regional and line haul applications requiring exceptional traction and tire wear resistance.

- Solid shoulders to withstand scrub and abrasion.
- Deep siping optimized for extra traction
- Also available as a Pre-Mold retread.
- 18/32nds original tread depth

SmartWay® Verified

Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	18/32

ALL-POSITION RETREADS

XZE® PRE-MOLD RETREAD

Line Haul & Regional

All-position retread designed for regional and line haul applications requiring exceptional traction and tire wear resistance.

- Solid shoulders to withstand scrub and abrasion.
- Deep siping optimized for extra traction
- Available siped.
- Also available as a Custom Mold retread.
- 16/32nds or 18/32nds original tread depth, depending on tread width.

SmartWay® Verified

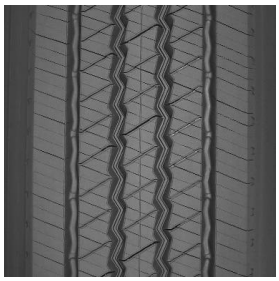
Tread Width	Tread Depth
168 \ 5.0	16/32
177 \ 6.0 194 \ 7.0 203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5	18/32

XZE® SIPED PRE-MOLD RETREAD

Line Haul & Regional

All-position retread designed for regional and line haul applications requiring exceptional traction and tire wear resistance.

- Solid shoulders to withstand scrub and abrasion.
- Deep siping optimized for extra traction.
- Deep tread depth designed for long mileage.
- Also available as a Pre-Mold and Custom Mold retread.
- 18/32nds original tread depth



SmartWay® Verified

Tread Width	Tread Depth
194 \ 7.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5	18/32

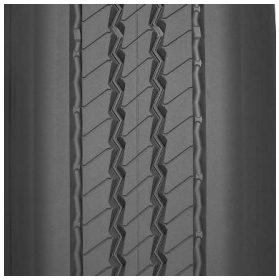
ALL-POSITION RETREADS

XZE® SA PRE-MOLD RETREAD

Line Haul & Regional

Spread-axle retread designed to incorporate unique product and process advancements enabling it to deliver exceptional levels of durability and mileage in line haul and regional applications.

- Rounded shoulders to minimize scrub effects typical of spread axle applications.
- Tapered tread extensions to withstand shifting footprint stress typical of spread axle applications while maintaining casing durability.
- 18/32nds original tread depth



Tread Width	Tread Depth
185 mm 195 mm 205 mm 215 mm 225 mm 245 mm	18/32

XZH™ WIDE BASE PRE-MOLD RETREAD

On/Off Road

All-position retread designed for scrub resistance and high mileage in on/off road applications.

- Abrasion-resistant compound
- Self-cleaning lugs, open shoulder design for exceptional traction and excellent flotation.
- Tapered tread extensions to withstand shifting footprint stress typical of wide base service.
- 20/32nds original tread depth

Tread Width[1]	Tread Depth
350/395 mm	20/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

ALL-POSITION RETREADS

XZL® WIDE BASE PRE-MOLD RETREAD

On/Off Road

All-position tire designed to deliver long life for challenging on/off road applications.

- Co-Ex technology, unique two-layer compound designed to minimize internal casing temperature for longer tread and casing life.
- Wing tread design for added protection on the shoulders for high scrub applications.
- Self-cleaning, open-shoulder tread design features offset elements to help enhance traction.
- Stable block design helps ensure a consistent footprint, even in free-rolling positions, to help deliver smooth, even wear and a quiet ride.
- Deep, application-specific compounds help provide resistance to aggressions and abrasion common in off-road service.
- 30/32nds original tread depth

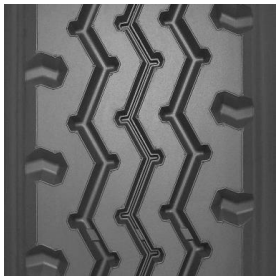
Tread Width[1]	Tread Depth
350/395 mm	30/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

XZY® PRE-MOLD RETREAD

On/Off Road

All-position retread designed for regional and on/off road applications requiring exceptional tire wear resistance.



- Chip and cut resistant compound
- Rib design optimized for quiet running and even wear.
- All wheel position capable
- Shoulder scallops provide additional traction.
- 18/32nds or 20/32nds original tread depth, depending on tread width.

Tread Width	Tread Depth
203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5 232 \ 10.0 238 \ 10.5	18/32
250 mm	20/32

ALL-POSITION RETREADS

XZY® WIDE BASE PRE-MOLD RETREAD

On/Off Road

All-position retread designed to deliver long tire life for challenging on/off road applications.

- Abrasion-resistant compound for long casing and tread life.
- Tapered tread extensions to withstand shifting footprint stress typical of wide base service.
- Also available as a Custom Mold retread.
- 20/32nds original tread depth

Tread Width[1]	Tread Depth
320/365 mm	20/32

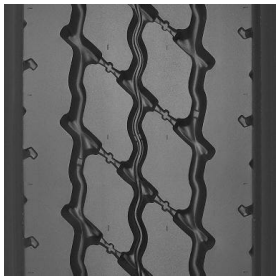
1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

XZY®3 PRE-MOLD RETREAD

On/Off Road

All-wheel position tread designed for exceptional wear and all-position traction in mixed on/off road service. Abrasion resistant compound promotes long casing and tread life.

- Heavy Duty Tread Protection – Anti-Cut/Chip Compound protects against aggression, chipping, and scaling.
- Stone Protection – Center Groove Bottom Protector guards against stone drilling and assists in stone ejection.
- Long Tread Life – Deep tread depth delivers long life in on/off road service.
- Maximized Traction – Aggressive 4-Rib Design provides traction in soft soil and mud.
- 24/32nds original tread depth



Tread Width	Tread Depth
210 mm 220 mm 230 mm 240 mm 250 mm 270 mm	24/32

ALL-POSITION RETREADS

XZY®3 WIDE BASE PRE-MOLD RETREAD

On/Off Road

All-wheel position tread designed for exceptional wear and all-position traction in mixed on/off road service. Abrasion resistant compound promotes long casing and tread life.

- Heavy Duty Tread Protection – Anti-Cut/Chip Compound protects against aggression, chipping, and scaling.
- Stone Protection – Center Groove Bottom Protector guards against stone drilling and assists in stone ejection.
- Long Tread Life – Deep tread depth delivers long life in on/off road service.
- Maximized Traction – Aggressive 4-Rib Design provides traction in soft soil and mud.
- Maximum Shoulder Adhesion – Winged Tread provides maximum shoulder adhesion in high scrub applications.
- 22/32nds original tread depth

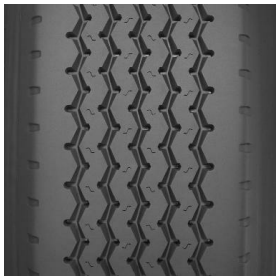
Tread Width[1]	Tread Depth
290/345 mm	22/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

XZA® WIDE BASE PRE-MOLD RETREAD

Regional

All-wheel position tread design with proven versatility and wide shoulder rib to withstand scrub and abrasion for regional applications.



- Wide shoulder rib to withstand scrub and abrasion.
- Tapered tread extensions to withstand shifting footprint stress typical of wide base service.
- 19/32nds original tread depth

Tread Width[1]	Tread Depth
290/345 mm 320/365 mm	19/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

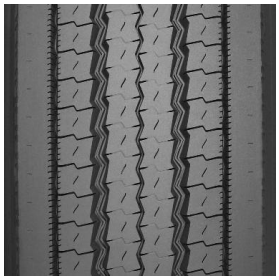
ALL-POSITION RETREADS

XZE®2 PRE-MOLD RETREAD

Regional

All-position retread designed for regional applications requiring exceptional tire wear resistance.

- Compound optimized for regional and over-the-road operations.
- Center grooves for good water evacuation.
- Good traction
- Performs well in both high scrub and low scrub conditions.
- 20/32nds original tread depth



Tread Width	Tread Depth
240 mm 250 mm 260 mm	20/32

X ONE® XZU® S PRE-MOLD RETREAD

Urban

Multipurpose, all axle, next generation wide-based single, designed with traction and durability features for demanding urban applications.

- Long tread life and outstanding scrub resistance in Urban/Regional service with 23/32nds original tread depth of application-specific compound.
- Co-Ex Technology, unique two layer compound designed to minimize casing temperature for longer casing life.
- Wing tread design for added protection on the shoulders for high scrub application.
- Enhanced protection against stone drilling from variable pitch groove walls and groove bottom protectors in all grooves.
- Tread design optimized for all weather traction.
- 23/32nds original tread depth

Tread Width[1]	Tread Depth
385/435 mm	23/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

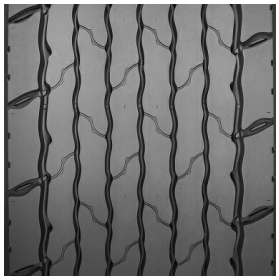
ALL-POSITION RETREADS

X ONE® XZU® S+ PRE-MOLD RETREAD

Urban

Industry leading, all position, next generation wide-base single, designed with 50% greater wear life(1) and durability for demanding urban applications.(2)

- 50% greater wear life and outstanding scrub resistance in Urban/Regional service with 29/32nds original tread depth of application-specific compound.
- Co-Ex Technology, unique two layer compound designed to minimize casing temperature for longer casing life.
- Wing tread design for added protection on the shoulders for high scrub application.
- Rib tread design optimized for better on road feel and long wear.
- 29/32nds original tread depth



Tread Width(3)	Tread Depth
385/435 mm	29/32

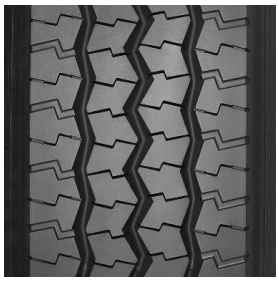
1. Vs. MICHELIN® X ONE® XZU®S Pre-Mold Retread.
2. Used in intermittent highway service with maximum speed of 65 mph (105 km/h).
3. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

XZU®2 PRE-MOLD RETREAD

Urban

All-position retread optimized for operations involving frequent stopping and starting, e.g., transit buses(1), delivery vehicles and sanitation trucks.

- Co-Ex technology, unique two layer compound designed to minimize casing temperature for longer casing life.
- Solid shoulder design optimized for long, smooth wear.
- Fuel efficient compound to help contribute to greater fuel saving.(2)
- 24/32nds original tread depth



Tread Width	Tread Depth
240 mm 250 mm	24/32

1. Federal Motor Carrier Safety Regulations, 9 C.F.R. § 395.75 (d), specify that “no bus shall be operated with regrooved, recapped or retreaded tires on the front wheels.”
2. Based on industry standard rolling resistance testing of comparable tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

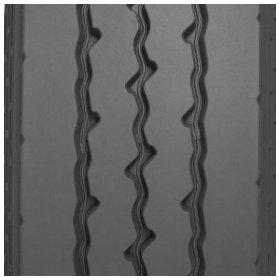
ALL-POSITION RETREADS

XZU®S PRE-MOLD RETREAD

Urban

All-position retread helps provide longer, more even wear in demanding regional/urban operations.

- Long tread life is delivered through a combination of features that resist scrub, such as use of a proprietary compound, optimized rib design, and high rubber mass.
- 26/32nds original tread depth



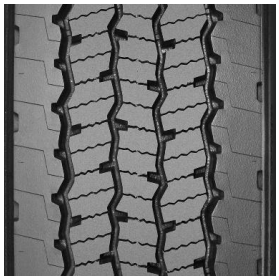
Tread Width	Tread Depth
220 mm 230 mm 240 mm 250 mm 270 mm 280 mm	26/32

DRIVE RETREADS

X® LINE ENERGY D CUSTOM MOLD RETREAD

Line Haul

The MICHELIN® X® LINE ENERGY D Custom Mold Retread offers SmartWay® fuel economy(1) with long tread life and excellent traction in a line haul energy drive retread.



- Driver Confidence from seamless, splice less new tire appearance.
- Outstanding traction of Matrix Siping. Matrix Sipes provide inter-locking action which offers excellent traction and even wear.
- Unique Advanced Technology compound tread provides exceptional wear properties for a long tread life.
- No compromise SmartWay® fuel economy.(2) Cool running tread rubber minimizes internal casing temperatures for low rolling resistance and extended casing life.
- 21/32nds original tread depth

SmartWay® Verified

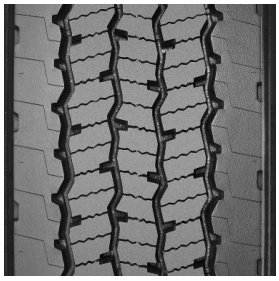
Tread Width	Tread Depth
275/80R22.5	21/32

1. Based on industry standard rolling resistance testing of comparable drive tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

X® LINE ENERGY D PRE-MOLD RETREAD

Line Haul

Drive position retread designed to offer exceptional SmartWay® fuel economy with leading tread life and traction in a line haul application.



- No compromise SmartWay® fuel economy and wear resistance from Dual Energy Compound Tread, combining wear resistant properties in the top tread layer, with cool running compounds in the bottom layer that promote low rolling resistance and long casing life
- 25% longer tread life GUARANTEED(1) vs. competitive SmartWay® line haul drive retreads, thanks to Dual Compound Tread Technology and Matrix Siping (see Guarantee for details).
- Driver confidence comes from the outstanding traction of Matrix Siping.
- 21/32nds original tread depth

MICHELIN ON MICHELIN (2)

SmartWay® Verified

Tread Width	Tread Depth
220 mm 230 mm 240 mm	21/32

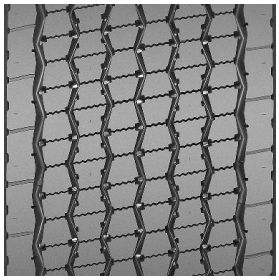
1. Based on internal tests against SmartWay® requirements.
2. A premium MICHELIN® retread with special guarantee(s) when retreaded on a MICHELIN® casing. See guarantee(s) at michelintruck.com for details.

DRIVE RETREADS

X ONE® LINE ENERGY D CUSTOM MOLD RETREAD

Line Haul

The MICHELIN® X ONE® LINE ENERGY D Custom Mold Retread offers SmartWay® fuel economy(1) with long tread life and excellent traction in a line haul energy drive retread.



- Driver confidence comes from seamless, splice-less, new tire appearance, outstanding traction from Zig-Zag Siping and maximum tread to shoulder adhesion.
- SmartWay® fuel economy from a unique fuel efficient Advanced Technology Compound Tread
- Long tread life delivered by Zig-Zag Siping and unique Advanced Technology Compound Tread that promote even wear
- More revenue via weight saved & payload added with X One tires vs. dual tires
- 21/32nds original tread depth

SmartWay® Verified

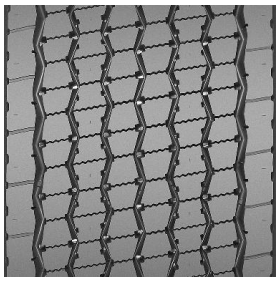
Tread Width(2)	Tread Depth
445/50R22.5	21/32

1. Based on industry standard rolling resistance testing of comparable drive tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

X ONE® LINE ENERGY D PRE-MOLD RETREAD

Line Haul

SmartWay® fuel economy(1) with long tread life and excellent traction in a line haul energy drive retread.



- SmartWay® fuel economy with long tread life and excellent traction in a line haul energy drive retread.
- Maximum shoulder adhesion is delivered with a winged tread feature.
- Driver confidence comes from the use of Matrix Siping, with its full depth, interlocking sipes providing thousands of biting edges for traction.
- 22/32nds original tread depth

MICHELIN ON MICHELIN (2)

SmartWay® Verified

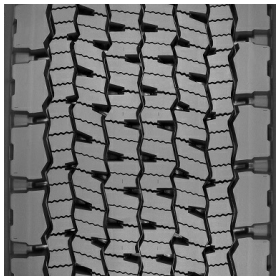
Tread Width(3)	Tread Depth
375/425 mm	22/32

1. Based on industry standard rolling resistance testing of comparable drive tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. A premium MICHELIN® retread with special guarantee(s) when retreaded on a MICHELIN® casing. See guarantee(s) at michelintruck.com for details.
3. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

DRIVE RETREADS

X ONE® LINE GRIP D PRE-MOLD RETREAD

Line Haul & Regional



Building on the Michelin new tire heritage, the MICHELIN® X One® Line Grip D retread is the long wearing, outstanding traction MICHELIN® X One® drive retread for line haul and regional applications.

- Excellent Stability – Extra-Wide Tread – Provides stability while helping to improve handling and mileage.
- Long Tread Life with Exceptional Traction from Wide, Open Shoulder Grooves. 30% More Mileage Challenge Guarantee(1)
- Shoulder Adhesion – Winged Tread – Provides maximum shoulder adhesion in high scrub applications.
- Outstanding Traction and Even Wear – Matrix sipes help provide inter-locking action which offers excellent traction and even wear. Zig-Zag groove walls help provide optimized biting edges and excellent water and snow evacuation. Full depth sipes help provide excellent traction throughout the life of the tread.
- Exclusive, unique two-layer compound designed to minimize internal casing temperatures for longer tread and casing life. Exclusive MICHELIN on MICHELIN 2nd Retread Guarantee(2)
- 27/32nds original tread depth

Tread Width(2)	Tread Depth
375/425 mm 385/435 mm	27/32

1. See Reference Materials for details.
2. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

X ONE® XDA-HT™ PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread optimized for regional and line haul applications, for new generation wide-based singles, requiring effective handling and long tread life.

- Aggressive Lug-Type Design
- Increased Traction and Treadwear
- Optimized for Regional and Line Haul Operations
- Cool Running Compound
- 26/32nds original tread depth

SmartWay® Verified

Tread Width	Tread Depth
390 mm 400 mm	26/32

DRIVE RETREADS

XD4® PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread designed for high torque conditions, e.g. 4x2's, in line haul and regional applications.

- Extra deep tread design optimized for high torque applications e.g. 4x2's.
- Open shoulder design helps deliver exceptional traction.
- Unique scrub resistant compound
- Also available as a Custom Mold retread.
- 28/32nds original tread depth

Tread Width	Tread Depth
210 mm 220 mm 230 mm	28/32

XDA-HT™ HIGH TORQUE PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread optimized for regional and line haul applications, requiring effective handling and long tread life.

- Unique two compound design to help deliver long mileage and minimize internal casing temperatures.
- Solid shoulder design optimized for long, smooth wear.
- Open lug design provides excellent traction in adverse conditions
- 28/32nds original tread depth

Tread Width	Tread Depth
210 mm 220 mm 230 mm 240 mm 250 mm 260 mm	28/32

DRIVE RETREADS

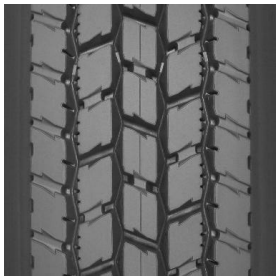
XDA2® 19 AT PRE-MOLD RETREAD

Line Haul

Drive position retread designed for fuel savings, durability, and all-weather traction for line haul applications.

- Fuel efficient(1) Advanced Technology compound
- No Compromise Performance
- Modified tread block design optimized for long, even wear.
- 19/32nds original tread depth

SmartWay® Verified



Tread Width	Tread Depth
219 \ 9.0 225 \ 9.5	19/32

1. Based on industry standard rolling resistance testing of comparable tires & retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

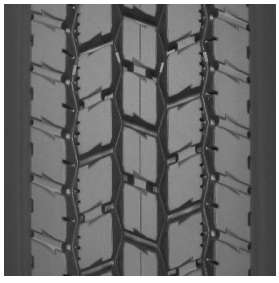
XDA2® 23 AT CUSTOM MOLD RETREAD

Line Haul

Drive position retread designed for fuel savings, durability, and all-weather traction for line haul applications.

- Fuel efficient(1) Advanced Technology compound
- No Compromise performance
- Modified tread block design optimized for long, even wear
- Also available as a Pre-Mold retread.
- 23/32nds original tread depth

SmartWay® Verified



Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	23/32

1. Based on industry standard rolling resistance testing of comparable tires & retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

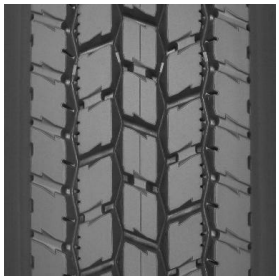
DRIVE RETREADS

XDA2® 23 AT PRE-MOLD RETREAD

Line Haul

Drive position retread designed for fuel savings, durability, and all-weather traction for line haul applications.

- Fuel efficient(1) Advanced Technology compound
- No Compromise performance
- Modified tread block design optimized for long, even wear
- Also available as a Custom Mold retread
- 23/32nds original tread depth



SmartWay® Verified

Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5 232 \ 10.0	23/32

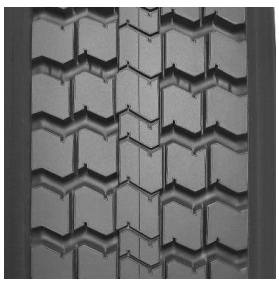
1. Based on industry standard rolling resistance testing of comparable tires & retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

XDC® 22 PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread with well-balanced properties designed for excellent wear and traction in line haul and regional applications.

- Open shoulder design optimized for exceptional traction.
- Solid center rib helps promote long, even wear.
- Classic drive axle design delivers excellent wear and traction.
- 22/32nds original tread depth



Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5	22/32

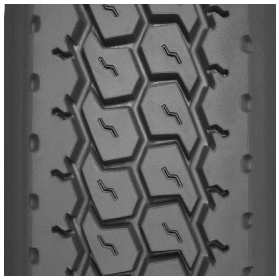
DRIVE RETREADS

XDHT® CUSTOM MOLD RETREAD

Line Haul & Regional

Drive position retread designed for line haul and regional applications.

- Solid shoulder design optimized for high scrub applications.
- Block design optimized for high torque operations.
- Also available as a Pre-Mold retread.
- 23/32nds original tread depth



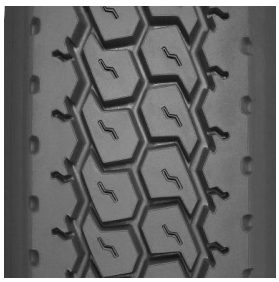
Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	23/32

XDHT® PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread designed for line haul and regional applications.

- Solid shoulder design optimized for high scrub applications.
- Block design optimized for high torque operations.
- Also available as a Custom Mold retread.
- Available siped.
- 19/32nds or 23/32nds original tread depth, depending on tread width.



Tread Width	Tread Depth
180 mm	19/32
194 \ 7.0 203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5 232 \ 10.0 240 mm	23/32

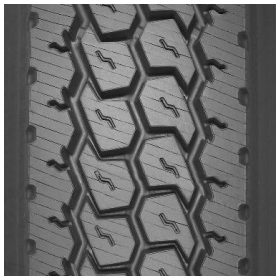
DRIVE RETREADS

XDHT® SIPED PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread designed for line haul and regional applications.

- Solid shoulder design optimized for high scrub applications.
- Block design optimized for high torque applications.
- Also available as a Pre-Mold and Custom Mold retread.
- 19/32nds or 23/32nds original tread depth, depending on tread width.



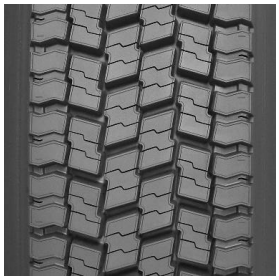
Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5	23/32

XDN® CUSTOM MOLD RETREAD

Line Haul & Regional

Drive position retread designed for winter weather conditions in line haul and regional applications.

- Excellent traction levels in snow and ice conditions
- Sipes and lateral interlocking grooves for rain and snow evacuation
- Excellent mileage
- Square shoulder for stability
- 26/32nds original tread depth



Tread Width	Tread Depth
11R22.5	26/32

DRIVE RETREADS

XDN®2 PRE-MOLD RETREAD

Line Haul & Regional

The all-weather drive retread optimized for exceptional traction and mileage.

- Outstanding winter and wet traction utilizing Michelin's patented Matrix Siping technology.
- Wide open shoulder grooves help deliver traction without compromising tread life.
- Increased tread life over previous generation winter and wet traction tread.
- 27/32nds original tread depth

Tread Width	Tread Depth
220 mm 230 mm 240 mm	27/32

XM+S4® PRE-MOLD RETREAD

Line Haul & Regional

Drive position retread with well-balanced properties designed for enhanced traction, especially in snow and mud conditions, for line haul and regional applications.

- Open lug tread design promotes self-cleaning of lugs maximizing mud and snow traction.
- Chevron block design for high traction and low noise.
- 21/32nds original tread depth

Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5	21/32

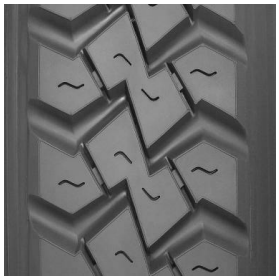
DRIVE RETREADS

XDY® PRE-MOLD RETREAD

On/Off Road & Urban

Drive position retread designed for on/off road and urban and regional applications that demand rugged wear resistance.

- Chip and cut resistant compound
- Deep tread for traction and mileage
- 26/32nds or 32/32nds original tread depth, depending on tread width.



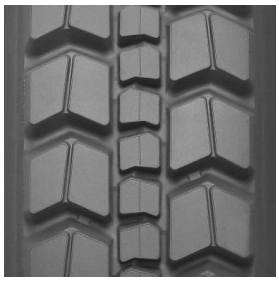
Tread Width	Tread Depth
203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5 232 \ 10.0 238 \ 10.5	26/32
240 mm 252 \ 12.0	32/32

XDY-1™ PRE-MOLD RETREAD

On/Off Road & Urban

Drive position retread designed for on/off road and urban applications that demand rugged wear resistance.

- Chip and cut resistant compound
- Directional tread optimized for traction.
- Extra deep tread for extra protection and mileage.
- 30/32nds original tread depth



Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5 232 \ 10.0 238 \ 10.5	30/32

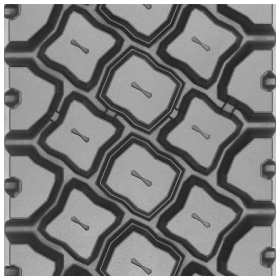
DRIVE RETREADS

XDY-EX™ PRE-MOLD RETREAD

On/Off Road

Delivers exceptional durability and traction in demanding off-road applications.

- Driving confidence for the challenging off-road conditions of construction, logging, and mining is delivered through an optimized tread, using a raised block sculpture, and deep 32/32nds of tread depth. This combination is designed to deliver exceptional traction in demanding environments.
- Long tread life is delivered using proprietary compound technology, that provides exceptional wear resistant properties, alongside stone ejector ledges to reduce the hazards of stone drilling.
- 32/32nds original tread depth



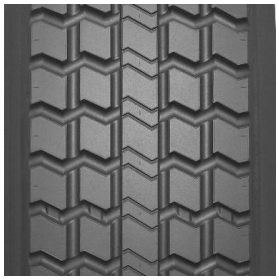
Tread Width	Tread Depth
220 mm 230 mm 240 mm	32/32

CD-LL

Regional & Line Haul

Drive position retread with well-balanced properties designed for trade-in vehicles in line haul and regional applications.

- Meets truck manufacturer's trade-in requirements.
- 14/32nds tread depth



Tread Width	Tread Depth
210 mm 220 mm 230 mm	14/32

DRIVE RETREADS

MD XDN®2 PRE-MOLD RETREAD

Regional

The MICHELIN® MD XDN®2 Pre-Mold Retread is a drive position retread optimized for traction and mileage for urban and regional light and medium duty vehicles with 16" to 19.5" tires.(1)

- Designed for light and medium commercial vehicles.
- Wide, open-shoulder grooves provide long wear life
- Designed to minimize internal casing temperature for longer tread and casing life
- Full-depth sipes provide excellent traction and even wear

Tread Width	Tread Depth
190 mm 200 mm	18/32
210 mm 220 mm 230 mm	20/32

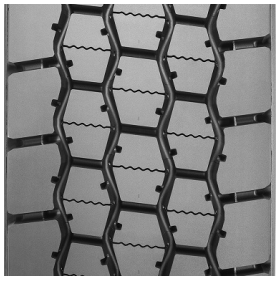
1. Speed limit of 87 mph for the 190-200 mm sizes.

X® MULTI D PRE-MOLD RETREAD

Regional & Urban

Regional drive retread designed for all season traction without compromising high mileage to provide optimal total cost of ownership and driver satisfaction

- Open shoulder design with regenerating tread technologies for optimum grip throughout life
- 28/32nds of tread with compounding designed to deliver scrub resistance and high mileage
- Co-extruded compounding, designed to reduce heat build up protecting the casing and improving fuel efficiency
- Teardrop grooves at the base of the sipes designed to provide reduced stress under high torque conditions
- Block bridges designed to provide additional support to reduce irregular wear and improve durability for the open shoulder



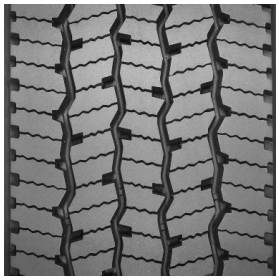
Tread Width	Tread Depth
220 mm 230 mm 240 mm	28/32

DRIVE RETREADS

X® MULTI ENERGY D PRE-MOLD RETREAD

Regional

High mileage, fuel efficient SmartWay® verified drive retread, optimized for regional and super regional applications.



- 25% longer tread life guaranteed[1] though the wear resistance of the dual energy compound tread, an optimized footprint and sipesaver technology.
- No compromise SmartWay® fuel economy is delivered by the Dual Energy Compound Tread, offering a top tread layer that delivers excellent fuel efficiency as well as exceptional wear properties, over a bottom layer of cool tread rubber that minimizes internal casing temperatures for low rolling resistance.
- Driver confidence comes from the outstanding traction of Matrix Siping.
- 21/32nds original tread depth

MICHELIN ON MICHELIN[2]

SmartWay® Verified

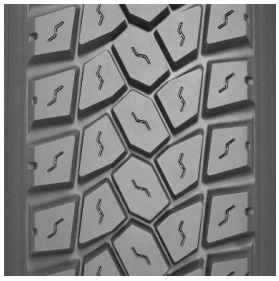
Tread Width	Tread Depth
220 mm 230 mm 240 mm	21/32

1. As compared to MICHELIN® XDA2® 23 Pre-Mold™ Retreads
2. A premium MICHELIN® retread with special guarantee(s) when retreaded on a MICHELIN® casing. See guarantee(s) at michelintruck.com for details.

XDE® M/S PRE-MOLD RETREAD

Regional

Drive position retread with well-balanced properties designed for enhanced traction, especially in muddy conditions, for regional applications.



- Open shoulder tread design optimized to help deliver high traction while providing excellent treadwear.
- Offset shoulder blocks help provide added traction in mud and soft soil conditions.
- Available in 18/32nds, 20/32nds, or 22/32nds original tread depth, depending on tread width.

Tread Width	Tread Depth
170 mm 180 mm	18/32
190 mm 200 mm	20/32
210 mm 220 mm 230 mm	22/32

DRIVE RETREADS

XDS® CUSTOM MOLD RETREAD

Regional & On/Off Road

The MICHELIN® XDS® Custom Mold Retread is a drive position retread delivering outstanding traction in rain or snow conditions, while maintaining long lasting wear for regional and on/off road applications.

- Confident Severe Weather Handling – Aggressive, open-shoulder tread design, extensive full-width sipes, lateral grooves, and a unique compound deliver excellent traction in harsh conditions
- Long Tread Life – Deep, directional tread design delivers optimal tread life
- 25/32nds original tread depth

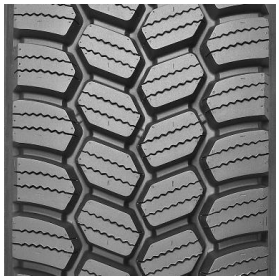
Tread Width	Tread Depth
11R22.5 11R24.5	25/32

XDS® 2 CUSTOM MOLD RETREAD

Regional

The MICHELIN® XDS®2 Custom Mold Retread delivers year-round drive axle traction, optimized for severe winter conditions.

- Driver Confidence from seamless, splice less new tire appearance.
- Confidence in severe weather conditions comes with the outstanding traction of the MICHELIN® XDS® 2 Custom Mold.
- Deep sipes, zig-zag groove walls with optimized biting edges, and v-shaped transverse shoulder grooves for stone/mud/snow evacuation, deliver year round driving confidence.
- Extended Miles even in high scrub applications.
- Engineered Tread Compound provides proprietary technology specifically formulated for demanding high scrub applications and improved wear performance
- Wide Contact Patch distributes force for longer life.
- Directional Tread reduces heel/toe wear associated with open shoulder designs.
- 25/32nds original tread depth



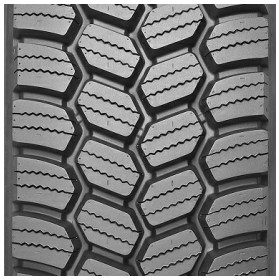
Tread Width	Tread Depth
11R22.5	25/32

DRIVE RETREADS

XDS® 2+ PRE-MOLD RETREAD

Regional & Urban

The MICHELIN® XDS®2+ Pre-Mold™ Retread delivers improved year-round drive axle traction, optimized for severe winter conditions.



- Driving confidence in severe weather conditions comes with the improved traction of the MICHELIN® XDS®2+ Pre-Mold™ Retread.
- Deep sipes, zig-zag groove walls with optimized biting edges, and v-shaped transverse shoulder grooves for stone/mud/snow evacuation, deliver year round driving confidence.
- Wide contact patch to distribute force.
- Matrix Sipes provide inter-locking action which offers excellent traction and even wear.
- Directional tread that reduces heal/toe wear.
- Teardrop at the base of the sipes relieves stress and helps prevent tearing.
- 25/32nds original tread depth

Tread Width	Tread Depth
210 mm 220 mm 230 mm 240 mm 250 mm	25/32

XDU®S PRE-MOLD RETREAD

Urban

Drive position retread designed with optimal scrub resistance for challenging urban applications.

- More rubber mass to aid in scrub resistance.
- Co-Ex Technology, unique two layer compound designed to minimize casing temperature for longer casing life.
- Proprietary compound specifically formulated for demanding, high scrub operations.
- Lug design optimized for exceptional wear in high scrub, high traction operations
- 32/32nds original tread depth

Tread Width	Tread Depth
220 mm 230 mm 240 mm 250 mm 270 mm	32/32

TRAILER RETREADS

IT2

Intermodal

The IT2 all position trailer axle retread with 11/32nds tread depth is designed for use in intermodal applications.

- Optimized compound resists weather checking.
- Lightweight, with 11/32nds tread depth.
- Tread design delivers traction and wear resistance.
- For chassis use only.

Tread Width	Tread Depth
200 mm 210 mm 220 mm 230 mm	11/32

X® LINE ENERGY T PRE-MOLD RETREAD

Line Haul

A premium trailer position retread for line haul applications, designed to provide fuel efficiency(1) and long, even wear.

- RESISTS ONSET OF UNEVEN WEAR – New siping technology and decoupling groove to support even wear on the trailer axle position. – Wider tread widths available - Stress on the tread is more evenly distributed for long, even tread life.
- FUEL SAVINGS – Advanced compound tread - The MICHELIN® X® Line Energy T Pre-Mold retread provides 5.0% lower rolling resistance vs. the MICHELIN® XT-1® AT Pre-Mold retread.(2) – Meets SmartWay® requirements.
- LOWER TOTAL COST OF OWNERSHIP – Designed for fuel efficiency, long tread life and even wear to drive competitive advantage for the fleet – Variable groove bottom features to help resist stone retention for longer wear
- Available siped.

SmartWay® Verified

Tread Width	Tread Depth
200 mm 210 mm 220 mm 230 mm 240 mm 250 mm	11/32

1. Based on external rolling resistance tests of the MICHELIN® X® Line Energy T Pre-Mold retread in 230mm width and current MICHELIN® XT-1® AT Pre-Mold retread in 225mm width using ISO 28580 test method in tire size YOK RY617 295/75R22.5. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.
2. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.

TRAILER RETREADS

X® LINE ENERGY T SIPED PRE-MOLD RETREAD

Line Haul

A premium trailer position siped retread for line haul applications, designed to provide fuel efficiency(1) and long, even wear.

- RESISTS ONSET OF UNEVEN WEAR – New siping technology and decoupling groove to support even wear on the trailer axle position. – Wider tread widths available - Stress on the tread is more evenly distributed for long, even tread life.
- FUEL SAVINGS – Advanced compound tread - The MICHELIN® X® Line Energy T Pre-Mold retread provides 5.0% lower rolling resistance vs. the MICHELIN® XT-1® AT Pre-Mold retread. (2) – Meets SmartWay® requirements
- LOWER TOTAL COST OF OWNERSHIP – Designed for fuel efficiency, long tread life and even wear to drive competitive advantage for the fleet. – Variable groove bottom features to help resist stone retention for longer wear
- Also available as a Pre-Mold retread.

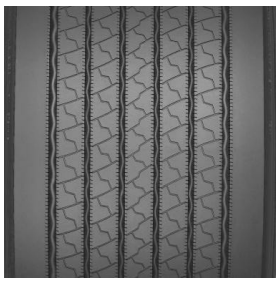
SmartWay® Verified

Tread Width	Tread Depth
200 mm 210 mm 220 mm 230 mm 240 mm 250 mm	11/32

1. Based on external rolling resistance tests of the MICHELIN® X® Line Energy T Pre-Mold retread in 230mm width and current MICHELIN® XT-1® AT Pre-Mold retread in 225mm width using ISO 28580 test method in tire size YOK RY617 295/75R22.5. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.
2. Actual on-road fuel saving results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance.

X ONE® LINE ENERGY T PRE-MOLD RETREAD

Line Haul



The MICHELIN® X ONE® LINE ENERGY T Pre-Mold Retread offers exceptional SmartWay® fuel economy, long tread life, and the MICHELIN on MICHELIN guarantee(1) in a line haul trailer retread.

- Exceptional SmartWay® fuel economy, long tread life, and the MICHELIN® ON MICHELIN® casing guarantee in an outstanding line haul trailer retread.
- Excellent mileage delivered with optimized architecture to resist irregular wear and deep 13/32nds of tread depth. Up to 15% improvement in removal mileage when retreaded on a MICHELIN® X ONE® LINE ENERGY T casing vs. the X ONE® XTA® Pre-Mold on an X ONE® XTA® casing.
- Improved SmartWay® fuel economy over MICHELIN® X ONE® XTA® Pre-Mold delivered using Advanced Technology Compounds for reduced rolling resistance.
- Tread durability for longer life is enhanced using a winged tread, that provides maximum shoulder adhesion, along with waved groove bottoms to help prevent stone drilling.
- Excellent handling comes from an optimized architecture featuring wide grooves that promote improved water evacuation.
- 13/32nds original tread depth

MICHELIN ON MICHELIN (2)

SmartWay® Verified

Tread Width(3)	Tread Depth
375/425 mm	13/32

1. Guaranteed second trailer retread if placed on MICHELIN® X One® casing. See MICHELIN on MICHELIN X One® guarantee at michelintruck.com for details.
2. A premium MICHELIN® retread with special guarantee(s) when retreaded on a MICHELIN® casing. See guarantee(s) at michelintruck.com for details.
3. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

TRAILER RETREADS

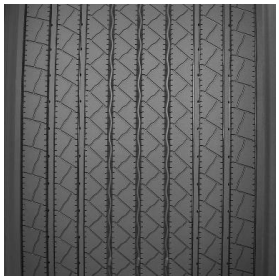
X ONE® XTA® CUSTOM MOLD RETREAD

Line Haul

Trailer position retread optimized to promote stability and resistance to uneven wear in new generation wide-based singles in line haul applications.

- Tread design optimized for stability and resistance to uneven wear.
- Unique fuel efficient(1) compound contributes to greater fuel savings.
- 13/32nds original tread depth

SmartWay® Verified



Tread Width(2)	Tread Depth
445/50R22.5	13/32

1. Based on industry standard rolling resistance testing of comparable tires & retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

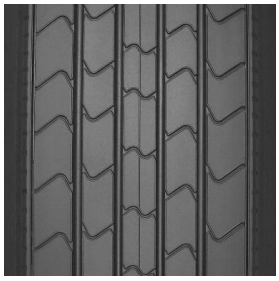
XT-1® AT CUSTOM MOLD RETREAD

Line Haul

Premium trailer position retread for line haul applications, providing fuel efficiency(1) and long, even wear.

- Fuel efficient(2) Advanced Technology compound
- No Compromise Performance
- Also available as a Pre-Mold retread.
- 12/32nds original tread depth

SmartWay® Verified



Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	12/32

1. Based on industry standard rolling resistance testing of comparable tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

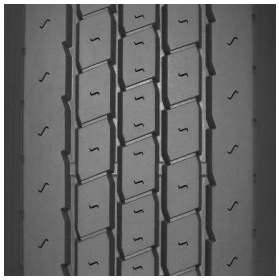
TRAILER RETREADS

XTA® PRE-MOLD RETREAD

Line Haul & Regional

Trailer position retread designed to deliver good, all-purpose performance in line haul and regional applications.

- Excellent stability
- Good resistance in high scrub operations.
- 16/32nds original tread depth



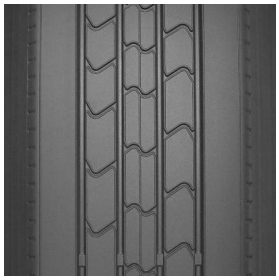
Tread Width	Tread Depth
240 mm 260 mm	16/32

XTA®-1 CUSTOM MOLD RETREAD

Line Haul & Regional

Trailer position retread designed to deliver enhanced wear-life in line haul and regional service.

- Solid shoulder to withstand most scrub and abrasion.
- Also available as a Pre-Mold™ retread.
- Shallow 11/32nds original tread depth for cool running and even wear.



Tread Width	Tread Depth
11R22.5 11R24.5 275/80R22.5 275/80R24.5	11/32

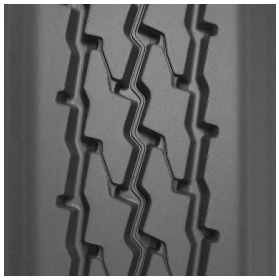
TRAILER RETREADS

XTY® SA PRE-MOLD RETREAD

On/Off Road

Trailer position retread designed to deliver strong wear resistance and traction in demanding on/off road applications, especially for spread-axle and multi-axle rigs.

- Application specific chip and cut resistant compound.
- Tapered tread extensions to help withstand the stress typical of spread or multi-axle applications.
- Aggressive tread design for demanding regional and on/off road trailer operations.
- 22/32nds original tread depth



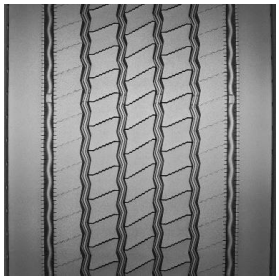
Tread Width	Tread Depth
205 mm 215 mm	22/32

X ONE® MULTI ENERGY T PRE-MOLD RETREAD

Regional

A SmartWay® verified trailer position retread which ensures the right balance of outstanding removal mileage, reduced irregular wear and fuel efficiency, optimized for regional applications.

- Excellent mileage delivered with optimized architecture to resist irregular wear and deep 15/32nds of tread depth.
- Long tread life is enhanced using a winged tread for maximum adhesion.
- Waved groove bottoms and stone ejectors help defend against stone drilling.
- Irregular wear is reduced by microsipes and a solid shoulder.
- SmartWay® fuel efficiency(1) comes from use of Advanced Technology Compounds to deliver low rolling resistance with excellent mileage.



MICHELIN ON MICHELIN(2)

SmartWay® Verified

Tread Width(3)	Tread Depth
375/425 mm 385/435 mm	15/32

1. Based on industry standard rolling resistance testing of comparable tires & retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.
2. A premium MICHELIN® retread with special guarantee(s) when retreaded on a MICHELIN® casing. See guarantee(s) at michelintruck.com for details.
3. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

TRAILER RETREADS

X ONE® XTE® CUSTOM MOLD RETREAD

Regional

Trailer position retread optimized to promote stability and resistance to uneven wear for new generation wide-based singles in regional hauling applications.

- Scrub resistant compound for regional trailer operations.
- Tapered tread extensions to help withstand the stress of regional trailer use.
- 16/32nds original tread depth

Tread Width[1]	Tread Depth
445/50R22.5	16/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

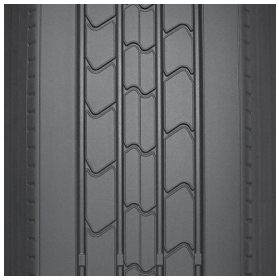
XTA®-2 PRE-MOLD RETREAD

Regional & Line Haul

The MICHELIN® XTA®-2 Pre-Mold Retread is a SmartWay® verified trailer tread designed to deliver enhanced wear-life in regional and line haul service.

- Fuel Efficiency – Provides low rolling resistance from Advanced Technology compound
- Strong Wet Weather Performance – Effective water evacuation from four see through circumferential grooves
- Good Durability: Scrub and abrasion resistance from solid shoulder
- Available siped.

SmartWay® Verified



Tread Width	Tread Depth
194 \ 7.0 203 \ 8.0 211 \ 8.5N 219 \ 9.0 225 \ 9.5 240 mm	11/32

TRAILER RETREADS

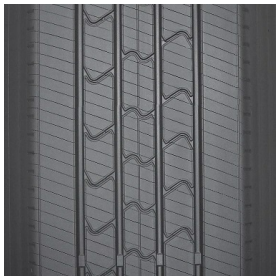
XTA®-2 SIPED PRE-MOLD RETREAD

Regional & Line Haul

The MICHELIN® XTA®-2 Pre-Mold Siped Retread is a SmartWay® verified trailer tread designed to deliver enhanced wear-life in regional and line haul service.

- Fuel Efficiency – Provides low rolling resistance from Advanced Technology compound
- Strong Wet Weather Performance – Effective water evacuation from four see through circumferential grooves
- Good Durability – Scrub and abrasion resistance from solid shoulder

SmartWay® Verified



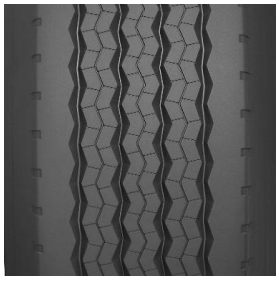
Tread Width	Tread Depth
211 \ 8.5N 219 \ 9.0 225 \ 9.5 240 mm	11/32

XTE2® WIDE BASE PRE-MOLD RETREAD

Regional

Wide grooves provide exceptional water evacuation.

- Wide grooves provide exceptional water evacuation.
- Wide shoulder rib to help resist scrub and abrasion.
- Tapered tread extensions to withstand shifting footprint stress typical of wide base service.
- 20/32nds original tread depth



Tread Width[1]	Tread Depth
290/345 mm	20/32

1. Tread widths with two measurements have wings. The first number is tread base width in mm. The second number is the overall width, wing tip to tip.

APPENDIX

MICHELIN

TUBE-TYPE TUBES AND FLAPS

A tire cannot perform properly unless it is mounted properly on the correct size wheel. The following are general instructions for demounting and mounting MICHELIN® tube-type tires. For detailed instructions on mounting and demounting truck tires on particular types of wheels, refer to the instructions of the wheel manufacturer or the RMA (Rubber Manufacturers Association) wall charts.

⚠WARNING

Do not reinflate any tires that have been run underinflated or flat without careful inspection for damage. If run-flat damage is detected, scrap the tire. A tire is considered run-flat if it is found to be less than 80% of normal recommended operating pressure. This can result in serious injury or death. The tire may be damaged on the inside and can explode during inflation. The wheel parts may be worn, damaged, or dislodged and can explosively separate.

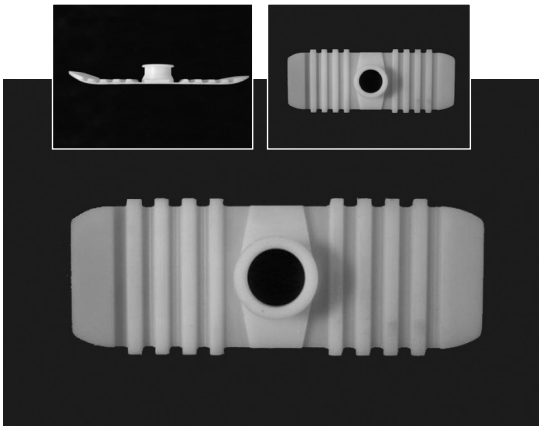
Tubes and Flaps sold separately.

TUBES AND FLAPS FOR COMMERCIAL TRUCK TIRES				
SIZE	TUBE	TUBE MSPN	FLAP	FLAP MSPN
7.50R15	15/16J	73993	15x6.00 E	38045
8.25R15	15/16J	73993	15x6.00 E	38045
10.00R15	15P	04560	15x7.50 E	39259
9.00R16	16N	17786	16x6.00D E	41067
7.50R17	17K	26362	17x6.00D	45608
335/80R20	20P	06934	20x10.00 E	45030
275/80R20	20P	06934	20x10.00 E	45030
365/80R20	20Q	39144	20x10.00 E	45030
15.5/80R20	20S	32420	20x10.00 E	45030
14.00R20	20S	32420	20x10.00 E	45030
14.5R20	20S	32420	20x10.00 E	45030
395/85R20	20S	32420	20x10.00 E	45030
365/85R20	20S	32420	20x10.00 E	45030
16.00R20	20V	32961	20x10.00 E	45030
10.00R20	20N	17078	20x7.50	44274
11.00R20	20P	06934	20x8.50 E	35472
12.00R20	20Q	39144	20x8.50 E	35472
12.00R24	24Q	11708	24/25x8.50 E	63382

MOUNTING LUBRICANT		
Product	**Size**	**Product code**
Tigre grease	4 Kg	25817

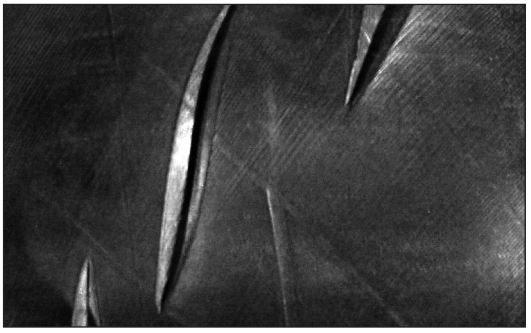
SELECTION OF PROPER COMPONENTS AND MATERIALS

a. **All tires must be mounted with the proper MICHELIN® tube and flap (if required) and wheel** as indicated in the specification tables on the previous page.



b. **Make certain that wheel components are properly matched and of the correct dimensions for the tire.**

c. **Always fit a new MICHELIN® tube in a new mounting.** Since a tube will exhibit growth in size through normal use, an old tube used in a new mounting increases the possibility of tube creasing and chafing, possibly resulting in failure.



Pinched tube

d. **Always install a new flap in a new mounting.** A flap, through extended use, becomes hard and brittle. After a limited time, it will develop a set to match the tire and wheel in which it is fitted. Therefore, it will not exactly match a new tire and wheel combination.

e. **Always install new valve cores and metal valve caps containing plastic or rubber seals.** For tires requiring O-rings, be sure to properly install a new silicone O-ring at every tire change.

f. **Always use a safety device such as an inflation cage** or other restraining device that will constrain all wheel components during an explosive separation of a multi-piece wheel, or during the sudden release of the contained air of a single piece wheel that is in compliance with OSHA (Occupational Safety and Health Administration) standards. Do not bolt restraining device to the floor. Never stand over a tire or in front of a tire when inflating. Always use a clip-on valve chuck with an in-line valve with a pressure gauge or a presettable regulator. Additionally, ensure there is a sufficient length of hose between the clip-on chuck and the in line valve (if one is used) to allow the service technician to stand outside the trajectory path when inflating. Trajectory zone means any potential path or route that a wheel component may travel during an explosive separation, or the sudden release of the pressurized air, or an area at which an blast from a single piece wheel may be released. The trajectory may deviate from paths that are perpendicular to the assembled position of the wheel at the time of separation or explosion.

⚠WARNING

Ensure there is a sufficient length of hose between the clip-on chuck and the in-line valve (if one is used) to allow the service technician to stand outside the trajectory path when inflating.

⚠WARNING

Do not bolt restraining device to the floor.

⚠WARNING

Do not place or store debris near inflation cage.

⚠WARNING

Never weld or apply heat to a wheel on which a tire is mounted.

GENERAL INFORMATION

UNITS OF MEASUREMENT

Quantity	S.I. Units	Other Units
Length	m (meter)	1 inch (") = 0.0254 m or 25.4 mm 1 mile = 1609 m (1.609 km) 1 kilometer = 0.621 mile
Mass	kg (Kilogram)	1 pound (lb) = 0.4536 kg 1 kilogram (kg) = 2.205 lbs.
Pressure	kPa (Pascal)	1 bar* = 100 kPa 1 psi = 6.895 kPa 1 pound per square inch 1 kg/cm2 - 98.066 kPa
Speed	m/s (meter per second)	1 kilometer per hour (kph)* = 0.27778 m/s 1 mile per hour (mph) = 0.4470 m/s (or 1.60935 kph)

* Non S.I. unit to be retained for use in specialized fields.

SPEED SYMBOL

The ISO* SPEED SYMBOL indicates the speed at which the tire can carry a load corresponding to its Load Index under service conditions specified by the tire manufacturer.**

Speed Symbol	Speed	
	(kph)	mph
A1	5	2.5
A2	10	5
A3	15	10
A4	20	12.5
A5	25	15
A6	30	20
A7	35	22.5
A8	40	25
B	50	30
C	60	35
D	65	40
E	70	43
F	80	50
G	90	56
J	100	62
K	110	68
L	120	75
M	130	81
N	140	87

* International Standardization Organization
** Exceeding the legal speed limit is neither recommended nor endorsed.

PRESSURE UNIT CONVERSION TABLE

kPa	bar	lb/in²*	kg/cm²*
100	1.0	15	1.0
150	1.5	22	1.5
200	2.0	29	2.0
250	2.5	36	2.5
300	3.0	44	3.1
350	3.5	51	3.6
400	4.0	58	4.1
450	4.5	65	4.6
500	5.0	73	5.1
550	5.5	80	5.6
600	6.0	87	6.1
650	6.5	94	6.6
700	7.0	102	7.1
750	7.5	109	7.7
800	8.0	116	8.2
850	8.5	123	8.7
900	9.0	131	9.2
950	9.5	138	9.7
1000	10.0	145	10.2
1050	10.5	152	10.7

LOAD RANGE/PLY RATING

B	–	4
C	–	6
D	–	8
E	–	10
F	–	12
G	–	14
H	–	16
J	–	18
L	–	20
M	–	22

LOAD INDEX

The ISO LOAD INDEX is a numerical code associated with the maximum load a tire can carry at the speed indicated by its SPEED* SYMBOL under service conditions specified by the tire manufacturer. (1 kg = 2.205 lbs.)

Load Index	kg	lbs
100	800	1,765
101	825	1,820
102	850	1,875
103	875	1,930
104	900	1,985
105	925	2,040
106	950	2,095
107	975	2,150
108	1,000	2,205
109	1,030	2,270
110	1,060	2,335
111	1,090	2,405
112	1,120	2470
113	1,150	2,535
114	1,180	2,600
115	1,215	2,680
116	1,250	2,755
117	1,285	2,835
118	1,320	2,910
119	1,360	3,000
120	1,400	3,085
121	1,450	3,195
122	1,500	3,305
123	1,550	3,415
124	1,600	3,525
125	1,650	3,640
126	1,700	3,750
127	1,750	3,860
128	1,800	3,970
129	1,850	4,080
130	1,900	4,190
131	1,950	4,300
132	2,000	4,410
133	2,060	4,540

Load Index	kg	lbs
134	2,120	4,675
135	2,180	4,805
136	2,240	4,940
137	2,300	5,070
138	2,360	5,205
139	2,430	5,355
140	2,500	5,510
141	2,575	5,675
142	2,650	5,840
143	2,725	6,005
144	2,800	6,175
145	2,900	6,395
146	3,000	6,610
147	3,075	6,780
148	3,150	6,940
149	3,250	7,160
150	3,350	7,390
151	3,450	7,610
152	3,550	7,830
153	3,650	8,050
154	3,750	8,270
155	3,875	8,540
156	4,000	8,820
157	4,125	9,090
158	4,250	9,370
159	4,375	9,650
160	4,500	9,920
161	4,625	10,200
162	4,750	10,500
163	4,875	10,700
164	5,000	11,000
165	5,150	11,400
166	5,300	11,700
167	5,450	12,000

Load Index	kg	lbs
168	5,600	12,300
169	5,800	12,800
170	6,000	13,200
171	6,150	13,600
172	6,300	13,900
173	6,500	14,300
174	6,700	14,800
175	6,900	15,200
176	7,100	15,700
177	7,300	16,100
178	7,500	16,500
179	7,750	17,100
180	8,000	17,600
181	8,250	18,195
182	8,500	18,745
183	8,750	19,295
184	9,000	19,845
185	9,250	20,400
186	9,500	21,000
187	9,750	21,500
188	10,000	22,050
189	10,300	22,720
190	10,600	23,400
191	10,900	24,040
192	11,200	24,700
193	11,500	25,360
194	11,800	26,020
195	12,150	26,800
196	12,500	27,565
197	12,850	28,355
198	13,200	29,110
199	13,600	30,000
200	14,000	30,870
201	14,500	31,980

STATIC AND LOW SPEED LOAD AND PRESSURE COEFFICIENTS

STATIC AND LOW SPEED LOAD AND PRESSURE COEFFICIENTS

⚠WARNING

Do not exceed loads or pressure limits of the wheel without permission of the component manufacturer. Exceeding the legal speed limit is neither recommended nor endorsed.

TRA (THE TIRE AND RIM ASSOCIATION, INC.) STANDARDS

(These Tables apply to tires only. Consult wheel manufacturer for wheel load and inflation capacities.)

Load limits at various speeds for radial ply truck-bus tires used on improved surfaces. (1)

A. METRIC AND WIDE BASE TIRES

The service load and minimum (cold) inflation must comply with the following limitations unless a speed restriction is indicated on the tire.*

Speed Range (mph)	% Load Change	Inflation Pressure Change
41 thru 50	+7%	No increase
31 thru 40	+9%	No increase
21 thru 30	+12%	+10 psi
11 thru 20	+17%	+15 psi
6 thru 10	+25%	+20 psi
2.6 thru 5	+45%	+20 psi
Creep thru 2.5	+55%	+20 psi
Creep (2)	+75%	+30 psi
Stationary	+105%	+30 psi

B. CONVENTIONAL TIRES

The service load and minimum (cold) inflation must comply with the following limitations unless a speed restriction is indicated on the tire.*

Speed Range (mph)	% Load Change	Inflation Pressure Change
41 thru 50	+9%	No increase
31 thru 40	+16%	No increase
21 thru 30	+24%	+10 psi
11 thru 20	+32%	+15 psi
6 thru 10 (2)	+60%	+30 psi
2.6 thru 5 (2)	+85%	+30 psi
Creep thru 2.5 (2)	+115%	+30 psi
Creep (2) (3)	+140%	+40 psi
Stationary (2)	+185%	+40 psi

Note: For bias ply tires please consult the TRA Year Book.

(1) These load and inflation changes are only required when exceeding the tire manufacturer's rated speed for the tire.
(2) Apply these increases to Dual Loads and Inflation Pressures.
(3) Creep – Motion for not over 200 feet in a 30-minute period.

Note 1: The inflation pressures shown in the referenced tables are minimum cold pressures for the various loads listed.
Higher pressures should be used as follows:
A. When required by the above speed/load table.
B. When higher pressures are desirable to obtain improved operating performance.
For speeds above 20 mph, the combined increases of A and B should not exceed 20 psi above the inflation specified for the maximum load of the tire.

Note 2: Load limits at various speeds for:
Tires used in highway service at restricted speed.
Mining and logging tires used in intermittent highway service

***Exceeding the legal speed limit is neither recommended or endorsed.**

COLD CLIMATE PRESSURE CORRECTION DATA

Because the pressure inside a tire will decrease when the vehicle is taken from a warm environment to a cold one, some adjustments may be necessary when adjusting the tire pressures of a vehicle to be operated in very cold temperatures.

These adjustments are only necessary if the pressures are verified and adjusted inside a heated garage with an air supply that is also at the higher room temperature. (No adjustment necessary if done outside.)

In extreme cases, the following table should be used to ensure that the operating pressure and deflection of tires are adequate at the outside ambient temperature.

Using the load and pressure charts below, determine the appropriate "Recommended Pressure" required for the axle load. Then find the same pressure down the left column of the table to the right. Going across to the relevant outside ambient temperature you will find the corrected inflation pressure to be used.

For example:

- A log truck in Alaska has a front axle loaded weight of 12,000 lbs.
- The truck is equipped with 11R24.5 MICHELIN® XZY®3 tires.
- The recommended pressure for this fitment is 105 psi.
- The truck is parked overnight in a heated garage.
- The outside high forecasted for today is -20ºF.
- The tire pressures are checked and adjusted prior to leaving the heated garage.

According the chart below, the tires should be adjusted to 128 psi.

Adjusted Inflation Pressure (psi) (when inflating indoors at 65°F [18°C])

Recommended Pressure (psi)	Outside Ambient Temperature										
	F° 50°	40°	30°	20°	10°	0°	-10°	-20°	-30°	-40°	-50°
	C° 10°	4°	-1°	-7°	-12°	-18°	-23°	-29°	-34°	-40°	-46°
75	78	80	81	83	86	88	90	92	95	98	100
80	83	85	87	89	91	93	96	98	101	104	107
85	88	90	92	94	97	99	102	104	107	110	113
90	93	95	98	100	102	105	108	110	113	116	119
95	98	101	103	105	108	111	113	116	119	123	126
100	103	106	108	111	113	116	119	122	125	129	132
105	109	111	114	116	119	122	125	128	132	135	139
110	114	116	119	122	125	128	131	134	138	141	145
115	119	122	124	127	130	133	137	140	144	148	151
120	124	127	130	133	136	139	143	146	150	154	158
125	129	132	135	138	141	145	148	152	156	160	164
130	134	137	140	144	147	150	154	158	162	166	171

CHANGES IN TOP SPEED
WHEN TIRE REVOLUTIONS PER MILE CHANGES

GEAR RATIO

A change in tire dimension will result in a change in engine RPM at a set cruise speed* that will result in a change in speed and fuel economy. The effect of tire size change on gear ratio should be considered in individual operations.

A decrease in tire radius will increase tractive torque and increase indicated top speed. An increase in tire radius will reduce tractive torque and decrease indicated speed.

Tire Revs./Mile – Speed – Size: These factors can affect engine RPM if corresponding changes are not made to gear ratios.

Example: Going from larger diameter tire to smaller diameter tire.
If you currently run a 275/80R22.5 MICHELIN® XDN®2 tire (511 Tire Revs./Mile) and change to a 445/50R22.5 MICHELIN® X ONE® XDN®2 tire (515 Tire Revs./Mile), the speedometer will indicate a slightly higher speed than the actual speed the vehicle is traveling.

MICHELIN X ONE Tire Size	MICHELIN X ONE Tire Tire Revs./Mile
445/50R22.5	515 (X ONE LINE GRIP D)
Dual Size	**Dual Tire Revs./Mile**
275/80R22.5	511 (XDN2)

MICHELIN X ONE Tire Size	MICHELIN X ONE Tire Tire Revs./Mile
455/55R22.5	492 (X ONE LINE GRIP D)
Dual Size	**Dual Tire Revs./Mile**
11R22.5 or 275/80R24.5	496 (XDN2)

$$\frac{\text{Final Tire Revs./Mile} - \text{Initial Tire Revs./Mile}}{\text{Initial Tire Revs./Mile}} =$$

$$\frac{515 - 511}{511} = 0.0078 \text{ or } .78\% \ (< 1\% \text{ change})$$

So when your actual speed is 60 mph, your speedometer will read 60.47 mph.

Rule of Thumb: When going from a lower Tire Revs./Mile to a higher Tire Revs./Mile, the actual vehicle speed is less than the speedometer reading. When going from a higher Tire Revs./Mile to a lower Tire Revs./Mile, the actual vehicle speed is greater than the speedometer reading.

* Exceeding the legal speed limit is neither recommended nor endorsed.

LOAD AND PRESSURE ADJUSTMENTS FOR NON-STANDARD WHEEL/RIM WIDTHS

To determine the proper load/inflation table, always comply with to the markings on the tire sidewall for maximum load at cold pressure.
Load and inflation industry standards are in a constant state of change. Michelin continually updates its product information to reflect these changes. Therefore, printed material may not reflect the current load and inflation information.
Note: Never exceed the wheel manufacturer's maximum pressure limitation.

TECHNICAL SPECIFICATIONS FOR MICHELIN 455/55R22.5 LRM ON 13.00X22.5 WHEELS STEER AXLE, FIRST LIFE ONLY

(Standard Wheel = 14.00x22.5)

Dimension	Load Range	Loaded Radius		RPM	Max. Load Single*			
		in.	mm.		lbs.	psi	kg.	kPa
455/55R22.5	LRM	19.5	496	493	10000	120	4535	830

Dimension	Load Range	psi	75	80	85	90	95	100	105	110	115	120
		kPa	520	550	590	620	660	690	720	760	790	830
455/55R22.5 **13.00" Wheel**	LRM	lbs. per axle	13740	14460	15180	15880	16600	17280	17980	18660	19340	20000
		kg. per axle	6240	6520	6900	7180	7560	7820	8100	8460	8720	9070

* Note: When used on a 13.00" wheel the max load and pressure is lower than that indicated on the sidewall.

FRONT AXLE OVERLOAD ON AUTO HAULERS

Recent studies by Michelin's Customer Engineering Support have shown that Auto Haulers may sometimes exceed the designed load capacity of the front axle tires either across the axle or at one of the two axle ends. Improper positioning of the top front loaded vehicle or positioning of heavier than intended vehicles in the top front position contribute to overload conditions.

275/70R22.5 LRJ

MICHELIN® 275/70R22.5 XZA2® ENERGY LRJ truck tires have a maximum single tire load of 6,940 lbs at 130 psi with a maximum speed rating of 75 mph(1). See Load and Inflation table below.(3)

Overloading the 275/70R22.5 LRJ tires (or any highway tire) and/or exceeding the speed rating of the tire is dangerous and may lead to tire failure.

The 275/70R22.5 LRJ is approved for use on a 7.50 inch and 8.25 inch wheel and not for a 9.00 inch wheel.

Specifications for 275/70R22.5 MICHELIN® XZA2® ENERGY LRJ

(3)

Size	Load Range	Catalog Number	Tread Depth	Max. Speed (1)	Loaded Radius		Overall Diameter		Overall Width (2)		Approved Wheels (Measuring wheel listed first.)	Min. Dual Spacing (2)		Revs Per Mile	Max. Load and Pressure Single			
			32nds	mph	in.	mm	in.	mm	in.	mm		in	mm		lbs.	psi	kg.	kPa
275/70R22.5 XZA2 ENERGY	**J**	90059	18	**75**	17.6	448	38.0	966	10.9	277	7.50, 8.25	11.9	303	545	**6940**	**130**	3150	900

Load and Inflation Table for 275/70R22.5 MICHELIN® XZA2® ENERGY LRJ

7.50", 8.25" Wheel, Max Speed 75 mph(1)	PSI	85	90	95	100	105	110	115	120	125	130	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
	kPa	590	620	660	690	720	760	790	830	860	900		
275/70R22.5 LRJ XZA2 ENERGY	LBS SINGLE	9880	10340	10800	11250	11700	12140	12580	13020	13460	13880	S	6940 LBS AT 130 PSI
	LBS DUAL	19420	20320	21220	22100	22980	23860	24720	25580			D	6395 LBS AT 120 PSI
	KG SINGLE	4480	4690	4900	5100	5310	5510	5710	5900	6080	6300	S	3150 KG AT 900 kPa
	KG DUAL	8810	9220	9630	10020	10420	10820	11210	11600			D	2900 KG AT 830 kPa

(3)

If an Auto Hauler cannot ensure that the front axle ends were loaded within the limit of the 275/70R22.5 LRJ, the tires should be assumed to have been overloaded, and must be removed and scrapped.

295/60R22.5 LRJ

The recommended alternative fitments for the 275/70R22.5 LRJ are the 295/60R22.5 MICHELIN® X LINE™ ENERGY Z LRJ (MSPN 35378) or the X® MULTI™ D (MSPN 20735) which must use either a 9.00 x 22.5 or 9.75 x 22.5 wheel. The tables on page xi apply only to the 295/60R22.5 MICHELIN® XZA2® ENERGY (MSPN 33215) and the MICHELIN® X® MULTIWAY XD (MSPN 06376).

Specifications for 295/60R22.5 MICHELIN® XZA2® ENERGY

Size	Load Range	Catalog Number	Tread Depth	Max. Speed (1)	Loaded Radius		Overall Diameter		Overall Width (2)		Approved Wheels (Measuring wheel listed first.)	Min. Dual Spacing (2)		Revs Per Mile	Max. Load and Pressure Single			
			32nds	mph	in.	mm	in.	mm	in.	mm		in	mm		lbs.	psi	kg.	kPa
295/60R22.5 XZA2 ENERGY	**J**	33215	16	**65** (5)	16.7	424	36.1	918	11.4	290	9.00 (4)	13.0	329	575	7390	130	3350	900

(1) Exceeding the legal speed limit is neither recommended nor endorsed.
(2) Overall widths will change 0.1 inch (2.5 mm) for each 1/4 inch change in wheel width. Minimum dual spacing should be adjusted accordingly.
(3) If used on wheels with 120 psi cold ratings the maximum load/tire in single mount is limited to 6,510 lb/tire.
(4) See the next page for use on 8.25 x 22.5" wheel.
(5) See the next page for use at 75 mph maximum speed.

295/60R22.5 MICHELIN® XZA2® ENERGY LRJ AND 295/60R22.5 MICHELIN® X® MULTIWAY XD LRJ, ADJUSTED LOAD AND PRESSURE TABLES FOR USE ON 8.25" WHEEL, OR AT 75 MPH(1)

295/60R22.5 LRJ – 9.00" Wheel, Max Speed 65 mph(1)

The 295/60R22.5 MICHELIN® XZA2® ENERGY and MICHELIN® X® MULTIWAY XD LRJ are designed to be used on a 9.00 x 22.5" wheel and at a maximum speed of 65 mph.(1)
(Note that the maximum load and pressure under these conditions match those indicated on the sidewall.)

9.00" Wheel, Max Speed 65 mph(1)	PSI	85	90	95	100	105	110	115	120	125	DESIGN MAXIMUM LOAD AND PRESSURE PER AXLE	DESIGN MAXIMUM LOAD AND PRESSURE PER TIRE
	kPa	590	620	660	690	720	760	790	830	860	900	900
295/60R22.5 LRJ XZA2 ENERGY, X MULTIWAY XD	LBS SINGLE	10520	11010	11500	11980	12460	12930	13400	13860	14320	14780	7390
	LBS DUAL	19300	20200	21100	21980	22860	23720	24580	25440	26280	27120	6780
	KG SINGLE	4770	4990	5220	5430	5650	5860	6080	6290	6460	6700	3350
	KG DUAL	8750	9160	9570	9970	10370	10760	11150	11540	11880	12300	3075

295/60R22.5 LRJ – 9.00" Wheel, Max Speed 75 mph(1)

The maximum speed of the 295/60R22.5 MICHELIN® XZA2® ENERGY LRJ and MICHELIN® X® MULTIWAY XD LRJ on a 9.00 x 22.5" wheel may be increased to 75 mph(1) by applying the following reduced load and pressure table.
(Note that the maximum load under these conditions is less than that indicated on the sidewall.)

9.00" Wheel, Max Speed 75 mph(1)	PSI	90	95	100	105	110	115	120	125	ADJUSTED MAXIMUM LOAD AND PRESSURE PER AXLE	ADJUSTED MAXIMUM LOAD AND PRESSURE PER TIRE
	kPa	620	660	690	720	760	790	830	860	900	900
295/60R22.5 LRJ XZA2 ENERGY, X MULTIWAY XD	LBS SINGLE	10520	11010	11500	11980	12460	12930	13400	13860	14320	7160
	LBS DUAL	19300	20200	21100	21980	22860	23720	24580	25440	26280	6570
	KG SINGLE	4770	4990	5220	5430	5650	5860	6080	6290	6460	3230
	KG DUAL	8750	9160	9570	9970	10370	10760	11150	11540	11880	2970

295/60R22.5 LRJ – 8.25" Wheel, Max Speed 75 mph(1)

In addition to running at 75 mph(1), the 295/60R22.5 MICHELIN® XZA2® ENERGY LRJ and MICHELIN® X® MULTIWAY XD LRJ may be mounted on an 8.25 x 22.5" wheel by applying the following further reduced load and pressure table.
(Note that the maximum load and pressure under these conditions are less than that indicated on the sidewall.)

8.25" Wheel Max Speed 75 mph(1)	PSI	70	75	80	85	90	95	100	105	110	115	ADJUSTED MAXIMUM LOAD AND PRESSURE PER AXLE	ADJUSTED MAXIMUM LOAD AND PRESSURE PER TIRE
	kPa	480	520	550	590	620	660	690	720	760	790	830	830
295/60R22.5 LRJ XZA2 ENERGY, X MULTIWAY XD	LBS SINGLE	8600	9030	9350	9850	10250	10710	11040	11420	11680	12170	12350	6175
	LBS DUAL	16160	16980	17640	17920	18660	19760	20100	20780	21420	22140	22700	5675
	KG SINGLE	3900	4100	4240	4460	4660	4860	5000	5180	5300	5520	5600	2800
	KG DUAL	7320	7720	8000	8120	8480	8960	9120	9440	9720	10040	10300	2575

(1) Exceeding the legal speed limit is neither recommended nor endorsed.

The recommended alternative fitments for the 275/70R22.5 LRJ are the 295/60R22.5 MICHELIN® X LINE™ ENERGY Z LRJ (MSPN 35378) or the X® MULTI™ D (MSPN 20735) which must use either a 9.00 x 22.5 or 9.75 x 22.5 wheel. The tables above apply only to the discontinued 295/60R22.5 MICHELIN® XZA2® ENERGY (MSPN 33215) and the MICHELIN® X® MULTIWAY XD (MSPN 06376) which may still be in service.

Load and inflation industry standards are in a constant state of change. Michelin continually updates its product information to reflect these changes. Therefore, printed material may not reflect the current load and inflation information.

NOTE: The actual load and inflation pressure used must not exceed the wheel manufacturer's maximum conditions. Never exceed a wheel manufacturer's limits without permission of the component manufacturer.

Single configuration = 2 tires per axle. Dual configuration = 4 tires per axle.
Loads are indicated per axle.

Always refer to the MICHELIN® Truck Tire Data Book (MWL40731) and MICHELIN® Truck Tire Service Manual (MWL00120) for proper tire selection, inflation and maintenance.

BALANCE AND RUNOUT

Current Technology & Maintenance Council (TMC) limits from *TMC RP 214C, Tire/Wheel End Balance and Runout*, are listed in the tables below.

TABLE A:
RECOMMENDED BALANCE AND RUNOUT VALUES FOR DISC WHEELS AND DEMOUNTABLE RIMS

		Balance (See Note 2)	Radial Runout (See Note 3)	Lateral Runout (See Note 3)
Tubeless Steel Disc Wheels		6 oz. max	0.070 inch max	0.070 inch max
Tubeless Aluminum Disc Wheels		4 oz. max	0.030 inch max	0.030 inch max
Tubeless Demountable Rims		N/A	0.070 inch max	0.070 inch max
Wide Base Wheels	Steel	See Note 1	0.075 inch max	0.075 inch max
	Aluminum	See Note 1	0.030 inch max	0.030 inch max

Note 1: Refer to the manufacturer's specifications for balance and runout values.
Note 2: Amount of weight applied to wheel to balance individual wheel component.
Note 3: For steel wheels, the area adjacent to the rim butt weld is not considered in runout measurements.

TABLE B:
TIRE/WHEEL ASSEMBLY BALANCE AND RUNOUT LIMITS

Note: If tire and wheel assembly is within these limits and ride problem still exists, refer to *TMC RP 648, Troubleshooting Ride Complaints.*

	Tire Position	19.5 Tire/Wheel	Over The Road Applications	On/Off-Road Applications	Wide Base Tire/Wheel
Maximum total weight correction expressed in ounces of weight required to correct at wheel diameter per rotating assembly	Steer	12 oz.	14 oz.	16 oz.	22 oz.
	Drive/Trailer	16 oz.	18 oz.	20 oz.	26 oz.
Lateral runout for rotating assembly	Steer	0.095″	0.08″	0.110″	0.125″
	Drive/Trailer	0.125″	0.125″	0.125″	0.125″
Radial runout for rotating assembly	Steer	0.095″	0.08″	0.110″	0.125″
	Drive/Trailer	0.125″	0.125″	0.125″	0.125″

TRUCK TIRE BRANDING

1. The following limits apply when branding MICHELIN® truck tires using equipment without accurate temperature control or which may exceed 465 degrees fahrenheit (240°C). *(Hand held equipment is typically used for this "HOT BRANDING.")*

   a. Brand Temperature — Maximum Depth
   - 570°F (300°C) — 1/64 inch (0.4 mm)
   - 480°F (250°C) — 1/32 inch (0.8 mm)

   b. Only brand in the "BRAND TIRE HERE" area.

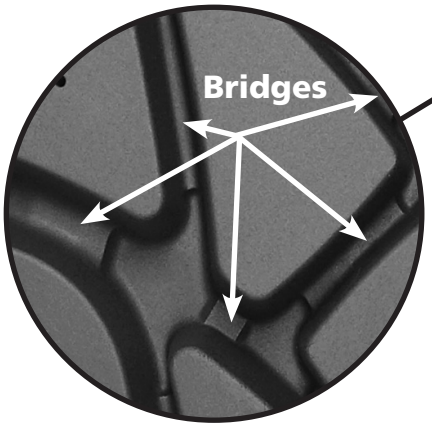
2. For equipment capable of "COLD BRANDING" i.e. controlled temperatures below 465°F (240°C), the following restrictions apply:

   a. Temperature — Maximum 465°F (240°C)
   b. Contact pressure — Maximum 100 psi
   c. Time of contact — Maximum 1 Minute
   d. Character Height — Maximum 1 Inch
   e. Character Depth — Maximum 0.040 Inch (1.0 mm)
   f. Location:
      - Circumferentially — in the "BRAND TIRE HERE" area, or centered above it.
      - Radially — in the "BRAND TIRE HERE" area with no portion of any character extending more than 1" above the outline of the area.

TREAD DEPTH MEASUREMENT ON TIRES RETREADED WITH THE MICHELIN® XDU®S PRE-MOLD™ RETREAD

The MICHELIN® XDU®S Pre-Mold™ Retread has a lug design optimized for high scrub, high traction operations as well as 32/32nds original tread depth. The tread design incorporates bridges between the lugs in order to stabilize the lugs. See photo below.

Care must be taken when taking tread depth measurements in order to get an accurate determination of the remaining tread depth. Do not take measurements on top of the bridges! This will give a false reading and may lead to the tire being pulled from service earlier than necessary. There may be as much as 4/32nds difference in the measurements taken on top of the bridge as opposed to taking it at the bottom of the groove.



FMVSS -119 Section (c) and The Federal Motor Carrier Safety Regulation Part 393.75 state that (non – steer axle) "tires shall have a tread groove pattern depth of at least 2/32nds of an inch when measured in a major tread groove. The measurement shall not be made where tie bars, humps or fillets are located."

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