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## TÜV SÜD - Tire Test 2014

### Performance Test – 265/70 R16 – Passenger Car / SUV

Wet Braking, Aquaplaning in Curve & Rolling Resistance

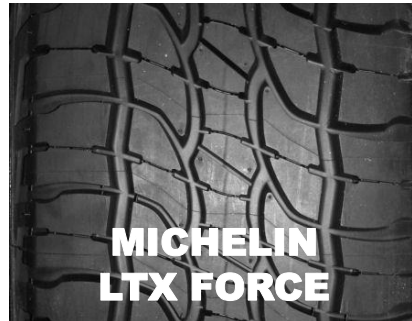
Test Period: January - April 2014

Extract of Report No. 76252268 – REC02

## TIRE DETAILS

**DIMENSION: 265/70 R16**

**TEST COMPETITORS (among others, in alphabetical order):**



- All test samples were provided for the test by the client.
- All purchased tires originate from the South American market and were also produced there (Brazil).
- TÜV SÜD randomly selected the tires for the individual tests.



## TEST DETAILS

### ■ Test Location

- Wet Braking and Aquaplaning in Curve: CEM, Fontange (F)
- Rolling Resistance: TÜV SÜD PS Tire Test Lab Garching (GER)

### ■ Test Vehicle

- Toyota Hilux

### ■ Acquisition and Evaluation of Results

- All tests were exclusively carried out by TÜV SÜD PS personnel
- The performance of each tire is assessed relative to the Michelin tire which serves as control/reference tire in each individual test (i.e. the performance of the Michelin represents the 100% baseline).
- The conversion of the results into a percentage value is done in a way that >100% always means better, <100% means worse.

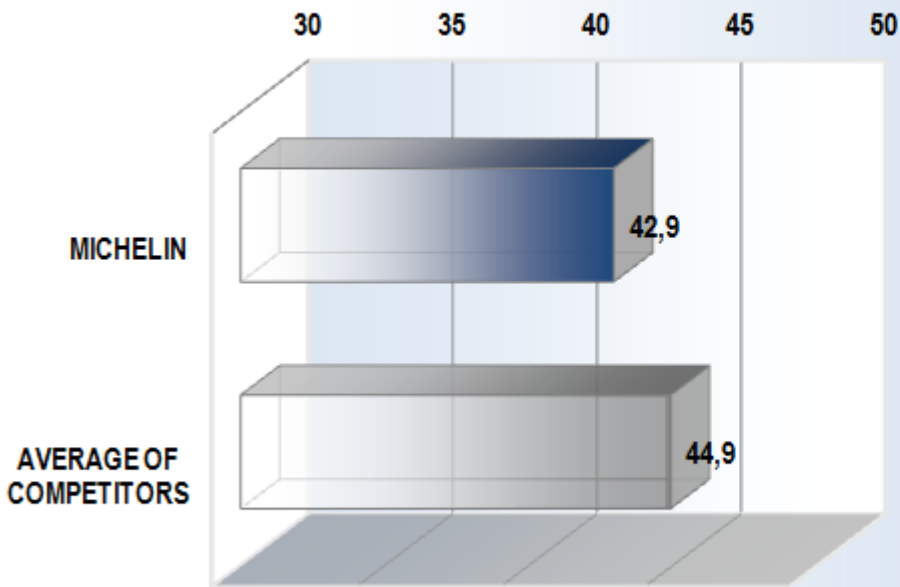


## TEST RESULTS

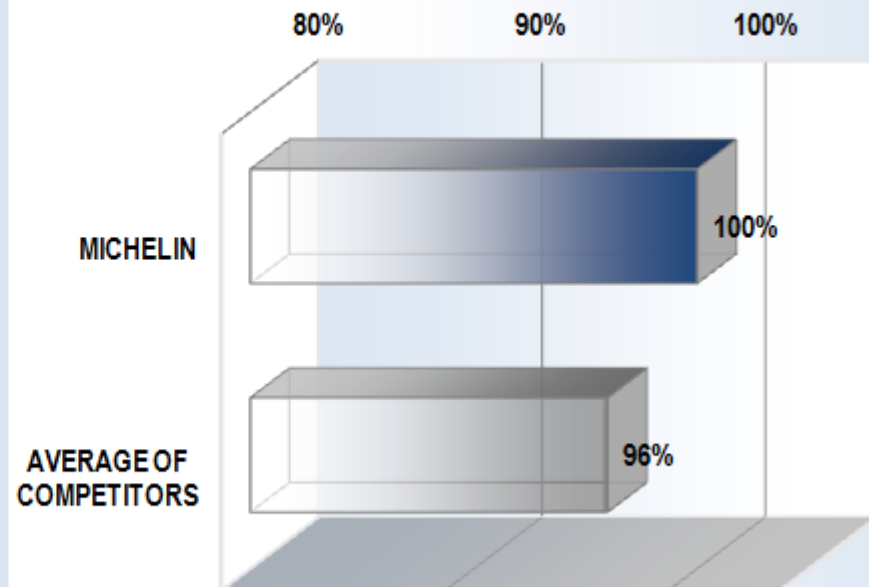
### WET BRAKING

- ABS-braking
- GPS based metrology equipment (V-Box) to measure stopping distance
- Speed range: 70 to 20 km/h
- Test surface complies with ECE R117 (wet asphalt)

**BRAKING DISTANCE ON WET (normalized)  
(70 - 20 km/h) [m]**



**WET BRAKING PERFORMANCE  
(ranked, relative to Michelin) [%]**



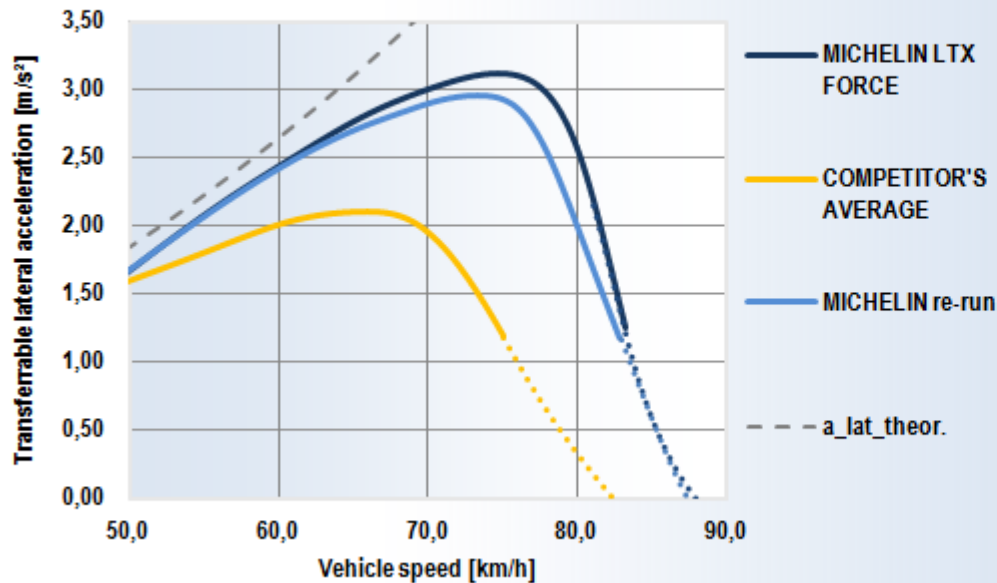
## TEST RESULTS

### ■ AQUAPLANNING IN CURVE

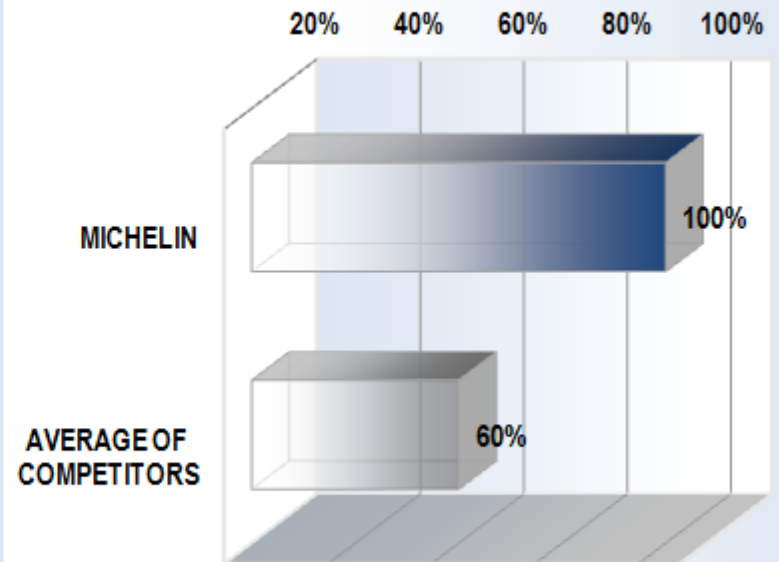
- ESP off                      - Radius: 100 m                      - Water depth: ~ 7 mm

- Evaluation acc. to VDA standard  $A = \int_{v=50km/h}^{v(a_{max}-60\%)} a dv$

#### AQUAPLANING IN CURVE PERFORMANCE (Graphs of lateral acceleration)



#### AQUAPLANING IN CURVE PERFORMANCE (ranked, relative to Michelin) [%]

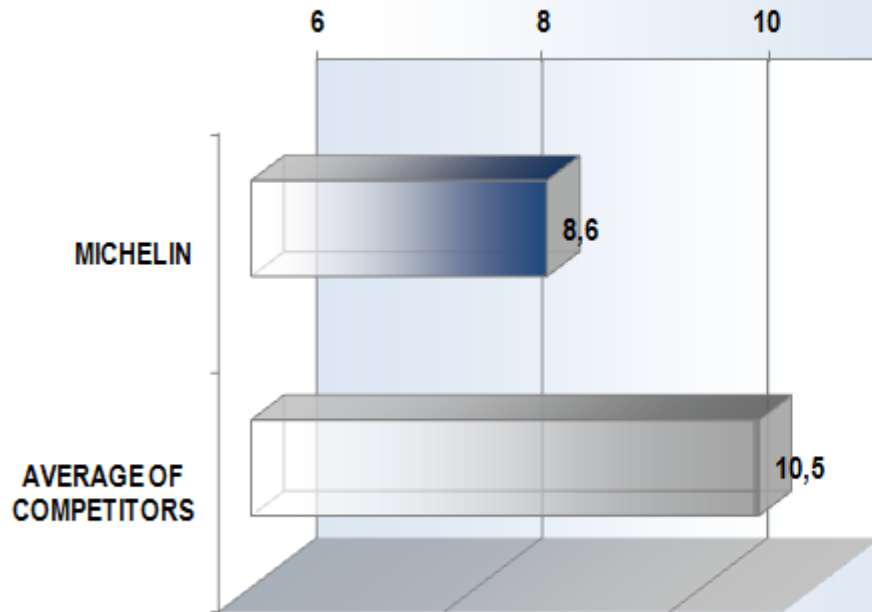


## TEST RESULTS

### ■ ROLLING RESISTANCE

- Test standard: in compliance to ISO 28580      - Method: electrical power
- Test speed: 80 km/h                                      - Load / Inflation: 896 kg / 2.1 bar

**ROLLING RESISTANCE COEFFICIENT  $C_R$  [kg/t]**



**LOW ROLLING RESISTANCE PERFORMANCE (ranked, relative to Michelin [%])**

