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TÜV SÜD - Tire Test 2015

225/50 R17 98 V XL - Goodyear Ultragrip Performance Gen.1

Tire Performance Test acc. to PPP 90023

Test Period: December 2014 – January 2015

Report No. 713051336-01G

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TIRE DETAILS

DIMENSION: 225/50 R17 98 V XL

TIRE BRANDS / PATTERNS IN THE TEST:

NEW PRODUCT:



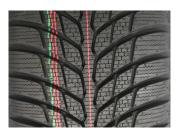
GOODYEAR
ULTRAGRIP PERFORMANCE GEN-1
DOT C13L 4714

PREDECESSOR: (voluntarily included upon client's request)



GOODYEAR
ULTRAGRIP 8 PERFORMANCE
DOT DM40 JC6R 4114

COMPETITIORS:



BRIDGESTONE BLIZZAK LM32-S DOT 8CJR R8K 3914



MICHELIN
ALPIN 5
DOT FU0A 04YX 3814



CONTI WINTERCONTACT TS 850 DOT LM40 D2XX 3314



PIRELLI WINTER SOTTOZERO 3 DOT XBNU N924 2714

- The test samples of Goodyear Ultragrip Performance Gen-1 were provided for the test by the client.
- All other tires were purchased in the normal market by TÜV SÜD.
- TÜV SÜD randomly selected the tires for the individual tests.

Report No. 713051336-01G



TEST DETAILS

Test Locations

- Wet, Dry, Noise: GPG Mireval (F)
- Snow: Arctic Center Saariselkä (FIN)
- Ice: Ice Hall Montpellier (F)
- Rolling Resistance: TÜV SÜD PS Garching (D)

Test Vehicles

- Ice: Audi A4 1.8 TFSI (B8); Snow, Wet & Dry: BMW 318 d & 320 d (F30); Noise: VW Touran 1.6 TDI

Procedure and Evaluation

- In most tests, the reference/control tire is tested repeatedly in the progress of the test to detect and consider changes of the ambient test parameters and correct its performance by linear interpolation.
- Generally, all tires in a test are primarily evaluated in relation to the reference/control tire
- The performance is expressed as a percentage value, calculated on the basis of the measured and corrected test data
- In this present evaluation, the 100% baseline is formed by the average of the tested competitors.
- In all evaluations, a percentage > 100% means better and <100% means worse.

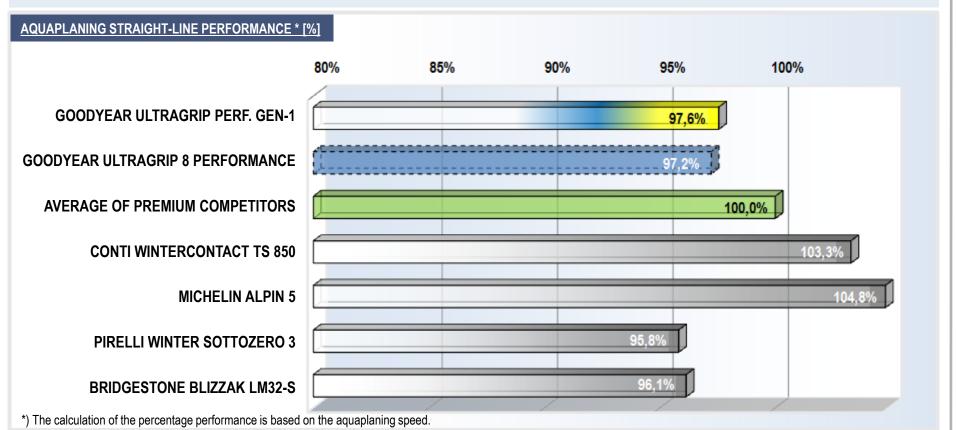
Report No. 713051336-01G



TEST RESULTS

AQUAPLANING STRAIGHT-LINE

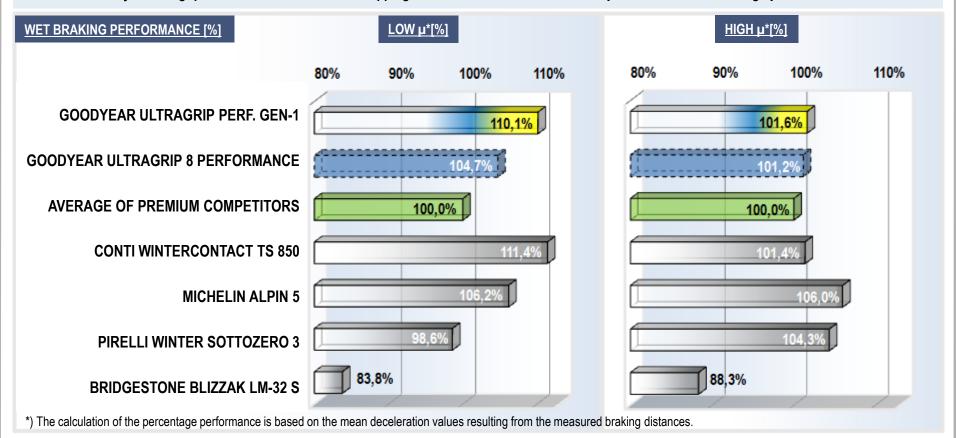
- Water depth: ~ 8mm
- Aquaplaning speed at 15% slip difference
- Result Goodyear Ultragrip Performance Gen-1: Ø Aquaplaning speed 89.9 km/h



Report No. 713051336-01G



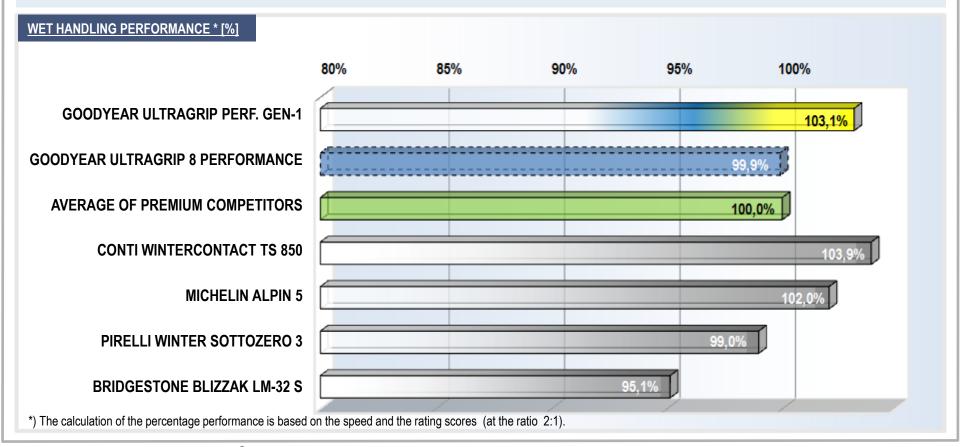
- WET BRAKING
 - ABS-braking Speed range: 80 to 20 km/h Tested on low and high μ wet surface
 - Result Goodyear Ultragrip Performance Gen-1: Ø Stopping distance / mean deceleration low μ: 31.0 m/ 7.46 m/s² high μ: 26.5 m / 8.73 m/s²



Report No. 713051336-01G



- WET HANDLING
 - ESP off Subjective assessment & lap times
- Handling track with wet asphalt, length: 1,700 m
- Result Goodyear Ultragrip Performance Gen-1: Ø Speed: ~90.0 km/h Ø Rating (out of max. 10): 8.1

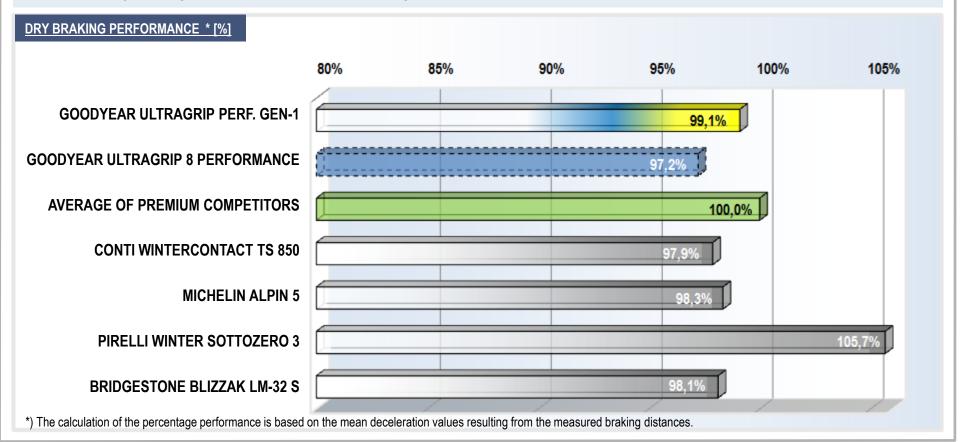


Report No. 713051336-01G



- DRY BRAKING
 - ABS-braking

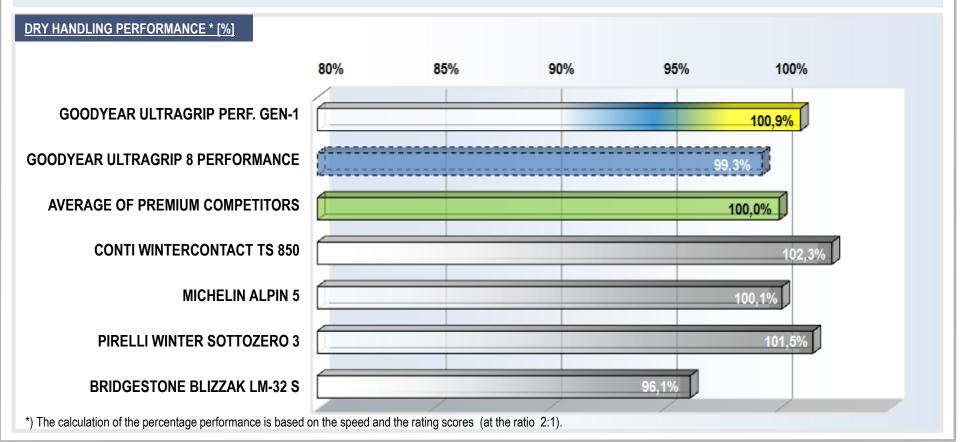
- Speed range: 100 to 0 km/h
- Result Goodyear Ultragrip Performance Gen-1: Ø Stopping distance / mean deceleration: 41.5 m/ 9.31 m/s²



Report No. 713051336-01G



- DRY HANDLING
 - ESP off Subjective assessment & lap times Handling tra
 - Handling track length: 3,100 m
 - Result Goodyear Ultragrip Performance Gen-1: Ø Speed : ~110.7 km/h Ø Rating (out of max. 10): 7.5



Report No. 713051336-01G

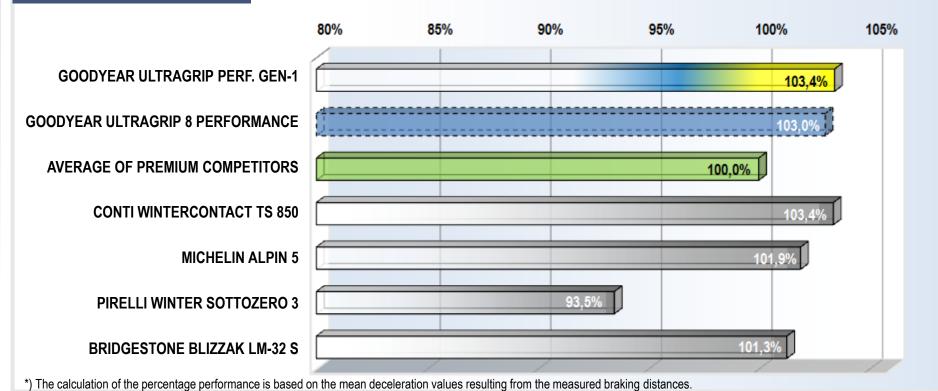


TEST RESULTS

- BRAKING ON SNOW
 - ABS-braking Speed range: 40 to 5 km/h
- Duplicate testing (test and re-test on two different days)
- Test surface: compressed snow

- Result Goodyear Ultragrip Performance Gen-1:
- Ø Stopping distance / mean deceleration (average of test & re-test): 17.2 m / 3.54 m/s²

SNOW BRAKING PERFORMANCE * [%]



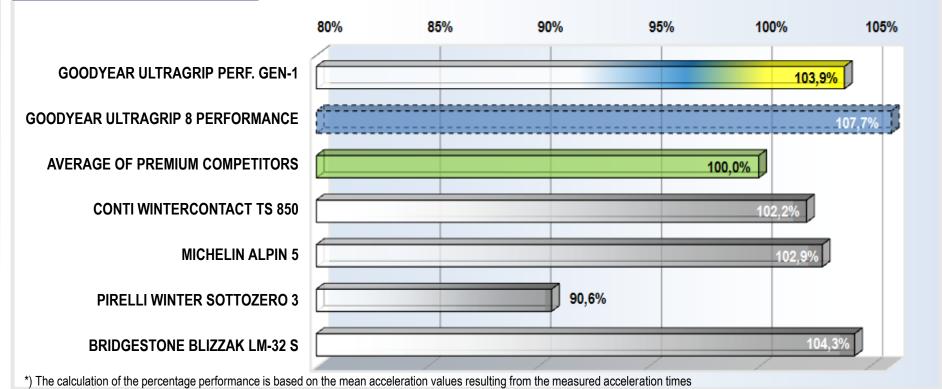
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TEST RESULTS

- ACCELERATION ON SNOW
 - ETC activated Speed range: 10 to 30 km/h Duplicate testing (test and re-test on two different days) Test surface: compressed snow
 - Result Goodyear Ultragrip Performance Gen-1: Ø acceleration time / mean acceleration (average of test & re-test): 3.95 sec / 1.41 m/s²

SNOW TRACTION PERFORMANCE * [%]



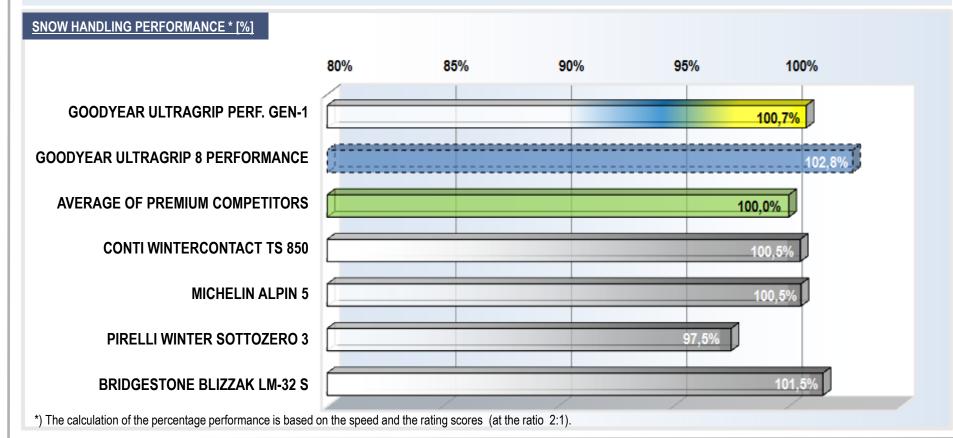
Report No. 713051336-01G



TEST RESULTS

SNOW HANDLING

- ESP off Subjective assessment & lap times Duplicate testing on two different days Handling track (compressed snow) length: 680 m
- Result Goodyear Ultragrip Performance Gen-1 (average of test and re-test): Ø Speed: 34.9 km/h Ø Rating (out of max. 10): 7.7



Report No. 713051336-01G



TEST RESULTS

- BRAKING ON ICE
 - ABS-braking Speed range: 20 to 5 km/h
- Test surface: polished, artificial ice
- Result Goodyear Ultragrip Performance Gen-1: Ø Stopping distance / mean deceleration: 12.8 m / 1.13 m/s²

*) The calculation of the percentage performance is based on the mean deceleration values resulting from the measured braking distances.

ICE BRAKING PERFORMANCE * [%] 95% 100% 105% 80% 85% 90% **GOODYEAR ULTRAGRIP PERF. GEN-1** 102.8% **GOODYEAR ULTRAGRIP 8 PERFORMANCE AVERAGE OF PREMIUM COMPETITORS** 100,0% **CONTI WINTERCONTACT TS 850 MICHELIN ALPIN 5 PIRELLI WINTER SOTTOZERO 3 BRIDGESTONE BLIZZAK LM-32 S**

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Report No. 713051336-01G

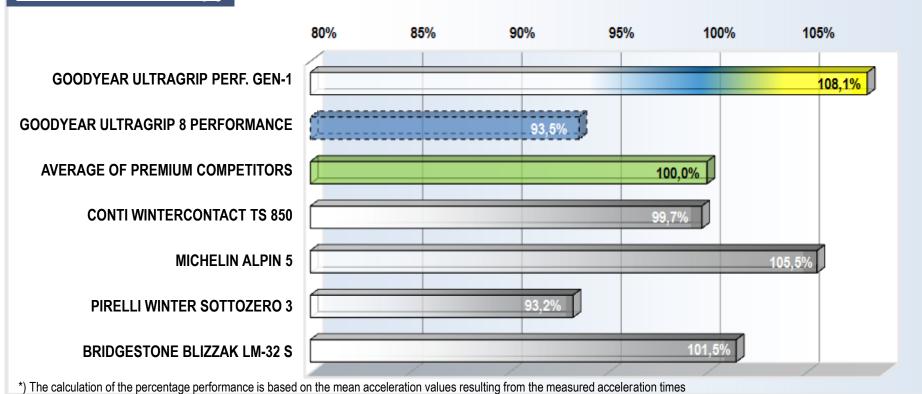


TEST RESULTS

ACCELERATION ON ICE

- ETC activated
- Speed range: 8 to 18 km/h
- Test surface: polished, artificial ice
- Result Goodyear Ultragrip Performance Gen-1: Ø acceleration time / mean acceleration: 4.88 sec / 0.57 m/s²

ICE TRACTION PERFORMANCE * [%]



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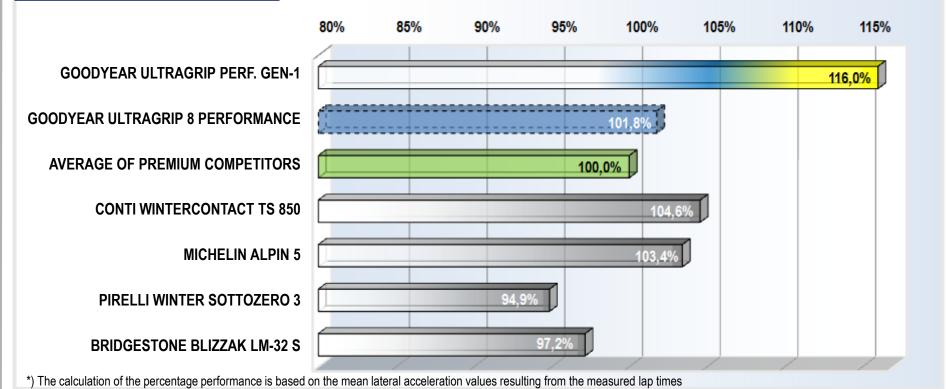
Report No. 713051336-01G



TEST RESULTS

- LATERAL GRIP ON ICE
 - ESP off Circle radius 10 m
- Test surface: polished, artificial ice
- Result Goodyear Ultragrip Performance Gen-1: Ø lap time / mean lateral acceleration: 18.60 sec / 1.14 m/s²

CORNERING PERFORMANCE ON ICE * [%]



Report No. 713051336-01G

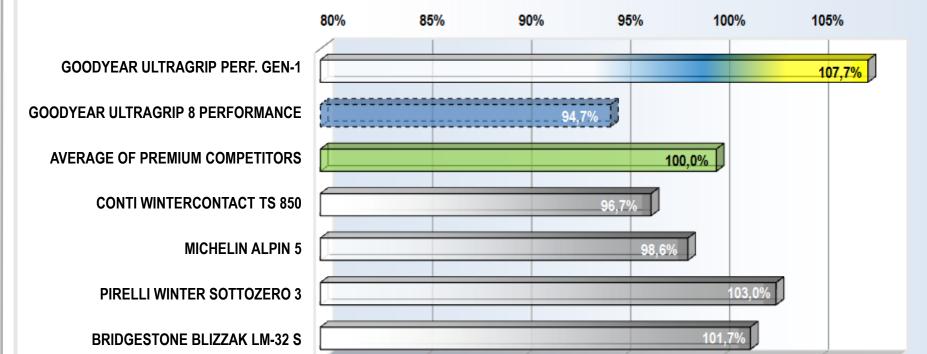


TEST RESULTS

- ROLLING RESISTANCE
 - Acc. to ISO 28580 / EC 1222/2009

- Electrical power method
- Load / inflation : 600 kg / 2.5 bar
- Result Goodyear Ultragrip Performance Gen-1: RR-Force $F_R = 49.7 \text{ N}$ RR-Coefficient $c_R = 8.5 \text{ kg/t}$ (\triangleq EC Label RRC = 8.1)

LOW ROLLING RESISTANCE PERFORMANCE * [%]



*) The calculation of the percentage performance is based on the reciprocal values of the measured rolling resistance forces.

Report No. 713051336-01G



TEST RESULTS

- PASS-BY NOISE
 - In accordance to ECE R117

- Reference speed: 80 km/h
- Load & Inflation FA / RA: 1065/1070 kg 2.05 / 2.05 bar

TIRE ROLLING NOISE (measured, normalized values) [dB (A)] The resulting type approval values are given in brackets. 70 72 74 **GOODYEAR ULTRAGRIP PERF. GEN-1** (69) 71.0 **GOODYEAR ULTRAGRIP 8 PERFORMANCE** (68) 69,9 **AVERAGE OF PREMIUM COMPETITORS** 72,0 **CONTI WINTERCONTACT TS 850** (69) **MICHELIN ALPIN 5** (69)(74)**PIRELLI WINTER SOTTOZERO 3** (70)**BRIDGESTONE BLIZZAK LM-32 S**