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TÜV SÜD Automotive Tire Test 2010

Benchmark Test – Goodyear Eagle F1 Asymmetric 2 - 255/40 R19

Report No. 76244706-1

Test Period: December 2010

Report No. 76244706-1



TIRE DETAILS

DIMENSION: 255/40 R19 100Y

TEST TIRES:

TÜV SÜD Automotive GmbH









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SCOPE OF TESTS & TEST DETAILS

Automotive

Scope of tests

- Wet performance: Braking high and low μ (from 80-20 km/h), Handling (subjective assessment & lap times)
- Dry performance: Braking (from 100 km/h), Handling (subjective assessment & lap times)
- Fuel economy: Test of rolling resistance (acc. to ISO 28580)

Test Locations:

- Wet & Dry Performance: Goodyear PG Mireval (F)
- Rolling Resistance: Tire Test Lab of TÜV SÜD Automotive, Garching

Test Vehicle

- Audi A7 3.0TDi quattro (180 kW)

Acquisition and Evaluation of Results

- All tests were exclusively carried out by TÜV SÜD Automotive personnel
- Secondly, the performance of the new Goodyear Eagle F1 Asym. 2 is assessed relative to the average performance of the competitors. In this case, the average performance of the competitors represents the baseline of 100%.
- The conversion of the results into a percentage value is done in a way that >100% always means better, <100% means worse.

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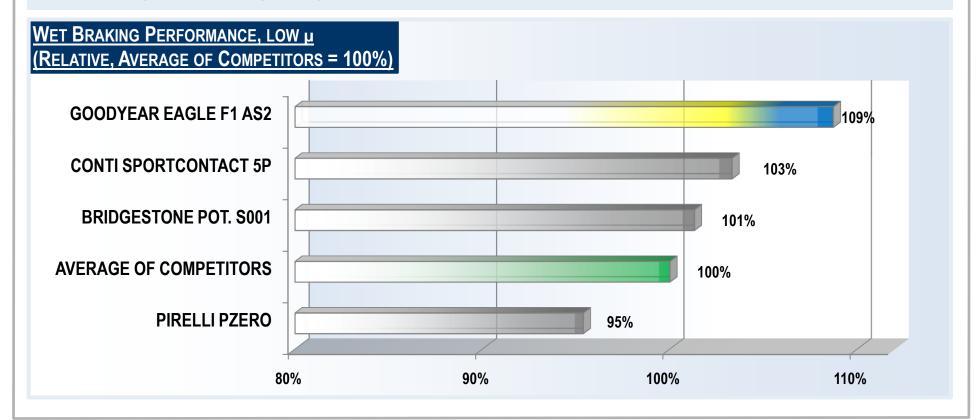
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TEST RESULTS

WET BRAKING (LOW μ)

- ABS-braking on wet asphalt (low μ)
- Speed range: 80 to 20 km/h
- Ø Stopping distance Goodyear Eagle F1 AS2: 36.3 m



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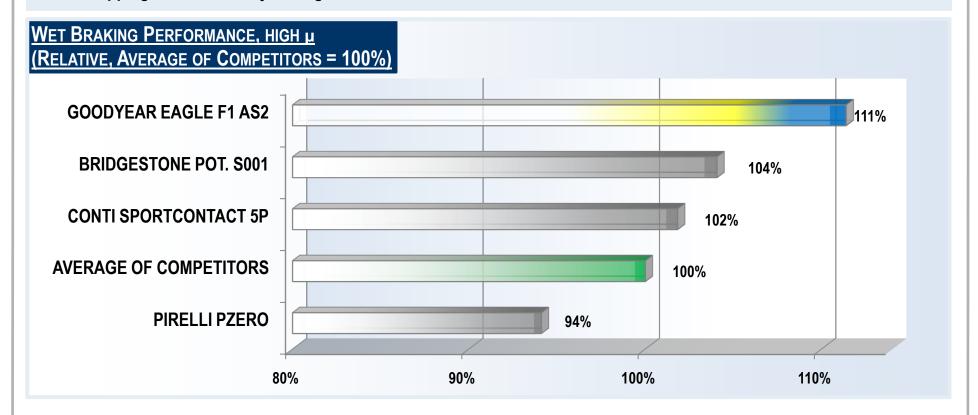


TEST RESULTS

Automotive

WET BRAKING (HIGH μ)

- ABS-braking on wet asphalt (high μ)
- Speed range: 80 to 20 km/h
- Ø Stopping distance Goodyear Eagle F1 AS2: 29.4 m



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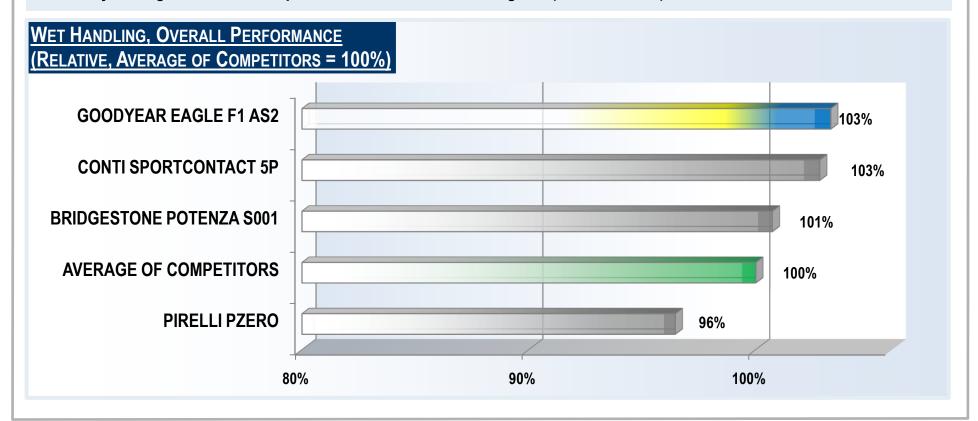


TEST RESULTS

Automotive

WET HANDLING

- ESP off (switch) Subjective asse
 - Subjective assessment & Lap times Track length 1700m
- Goodyear Eagle F1 AS2: Ø Speed: ~87.5 km/h Ø Rating: 8.5 (out of max. 10)



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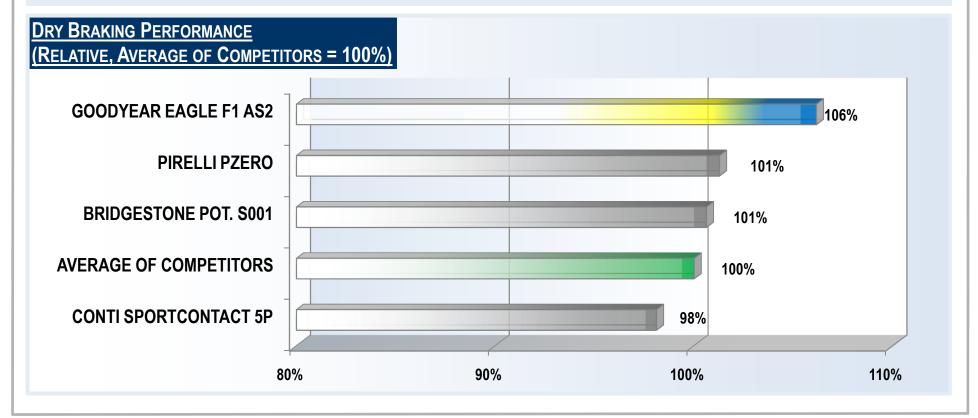
TEST RESULTS

Automotive

DRY BRAKING

- ABS-braking on dry asphalt surface

- Speed range: 100 to 0 km/h
- Ø Stopping distance Goodyear Eagle F1 AS2: 32.6 m



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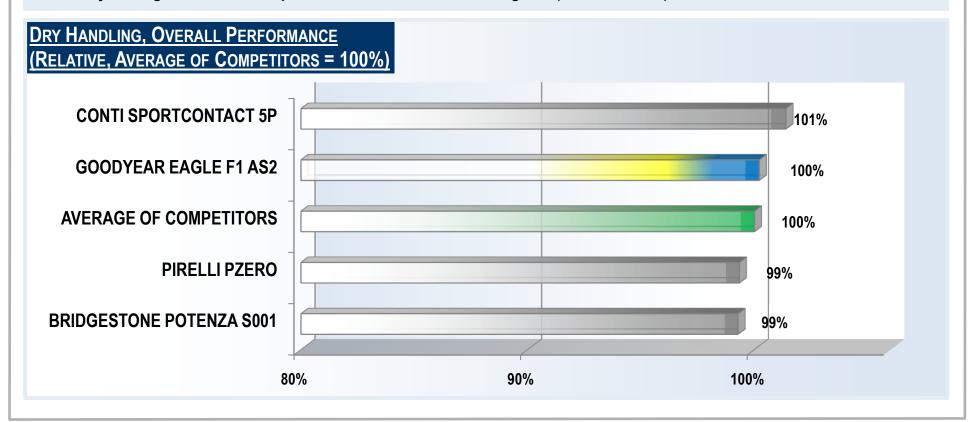


TEST RESULTS

Automotive

DRY HANDLING

- ESP off (switch)
- Subjective assessment & Lap times
- Track length: 3300m
- Goodyear Eagle F1 AS2: Ø speed : ~121.3 km/h Ø Rating: 8.4 (out of max. 10)

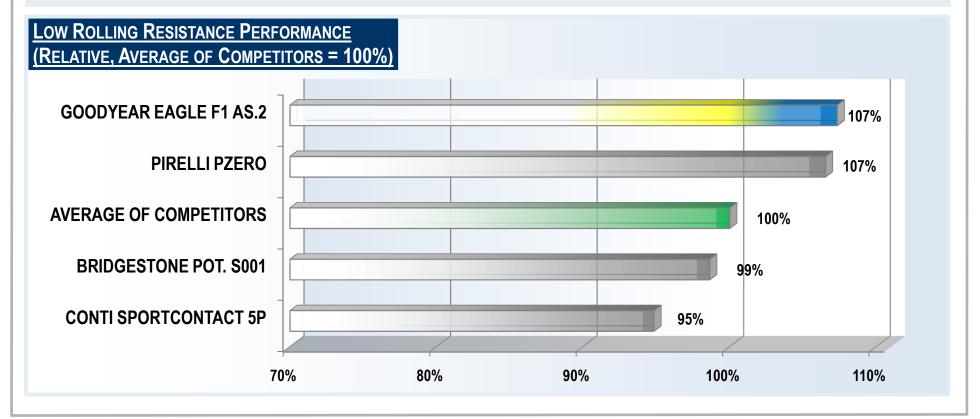




TEST RESULTS

ROLLING RESISTANCE

- ISO 28580, electrical power method
- Rolling resistance coefficient of Goodyear Eagle F1 AS2: $c_R = 9.3 \text{ kg/t}$



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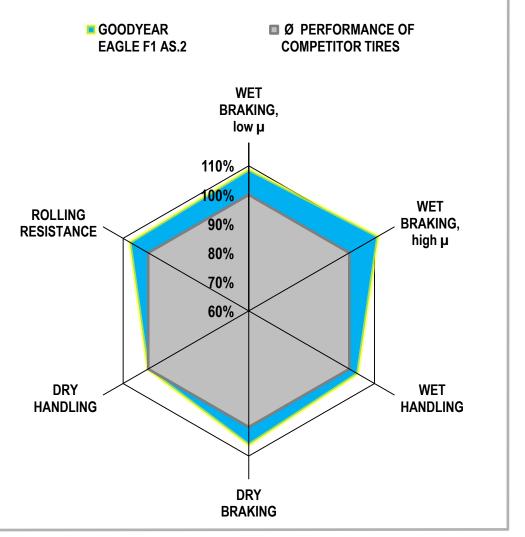


SUMMARY OF RESULTS (I.)

GY EF1AS2 vs. Competitors

Automotive

	Ø PERFORMANCE OF COMPETITORS	BEST COMPET.	WORST COMPET.
109%	100%	103%	95%
111%	100%	104%	94%
103%	100%	103%	96%
106%	100%	101%	98%
100%	100%	101%	99%
107%	100%	107%	95%
	109% 111% 103% 106%	AGLE F1 OF COMPETITORS 109% 100% 1111% 100% 100% 100% 100%	AGLE F1 AS.2 OF COMPETITORS 109% 100% 103% 1111% 100% 104% 103% 100% 101% 106% 100% 101%



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SUMMARY OF RESULTS (II.)
GY EF1AS2 vs. Competitors

Automotive

Results relative to the best tire in each test	GOODYEAR EAGLE F1 AS.2	BRIDGESTONE POTENZA S001	CONTI SPORT- CONTACT 5P	PIRELLI PZERO	■ GOODYEAR ■ BRIDGESTONE □ CONTI ■ PIRELLI EAGLE F1 AS.2 POTENZA S001 SPORTCONT.5P PZERO					
WET BRAKING, low µ	100%	93%	95%	88%	WET BRAKING, low µ 100%					
WET BRAKING, high µ	100%	93%	91%	84%	ROLLING RESISTANCE 80% WET BRAKING,					
WET HANDLING	100%	98%	100%	93%	RESISTANCE high μ					
DRY BRAKING	100%	95%	92%	95%	60%					
DRY HANDLING	99%	98%	100%	98%	DRY HANDLING HANDLING					
ROLLING RESISTANCE	100%	91%	87%	99%	DRY BRAKING					

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SUMMARY OF RESULTS (III.)
Special Considerations

Automotive

BRAKING DISTANCES AND REMAINING SPEEDS (corrected over the relative pro-/degression of the control or reference tire)

BRAKING WET, LOW μ	GOODYEAR EAGLE F1 AS.2	AVERAGE OF COMPETITORS	BRIDGESTONE POTENZA S001	CONTI SPORTCONTACT 5P	PIRELLI PZERO
Corrected distance 80 - 20 km/h	36,3	39,5	39,0	38,2	41,4
Remaining speed (when GY is 0):	0,0	22,3	20,9	17,8	28,0

Conclusion 1: The stopping distance of Goodyear Eagle F1 AS.2 is 3.2 meters shorter than the average stopping distance of the competitors in test.

Conclusion 2: When Goodyear Eagle F1 AS.2 has stopped, the average speed of the competitors is still 22 km/h.

BRAKING WET, HIGH µ	GOODYEAR EAGLE F1 AS.2	AVERAGE OF COMPETITORS	BRIDGESTONE POTENZA S001	CONTI SPORTCONTACT 5P	PIRELLI PZERO
Corrected distance 80 - 20 km/h	29,2	32,6	31,3	31,9	34,6
Remaining speed (when GY is 0):	0,0	25,2	20,5	23,4	31,5

Conclusion 1: The stopping distance of Goodyear Eagle F1 AS.2 is 3.4 meters shorter than the average stopping distance of the competitors in test.

Conclusion 2: When Goodyear Eagle F1 AS.2 has stopped, the average speed of the competitors is still 25 km/h.

BRAKING DRY	GOODYEAR EAGLE F1 AS.2	AVERAGE OF COMPETITORS	BRIDGESTONE POTENZA S001	CONTI SPORTCONTACT 5P	PIRELLI PZERO
Corrected distance 100 - 0 km/h	32,4	34,4	34,2	35,0	33,9
Remaining speed (when GY is 0):	0,0	23,9	22,8	27,5	21,4

Conclusion 1: The stopping distance of Goodyear Eagle F1 AS.2 is 2 meters shorter than the average stopping distance of the competitors in test.

Conclusion 2: When Goodyear Eagle F1 AS.2 has stopped, the average speed of the competitors is still 24 km/h.

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