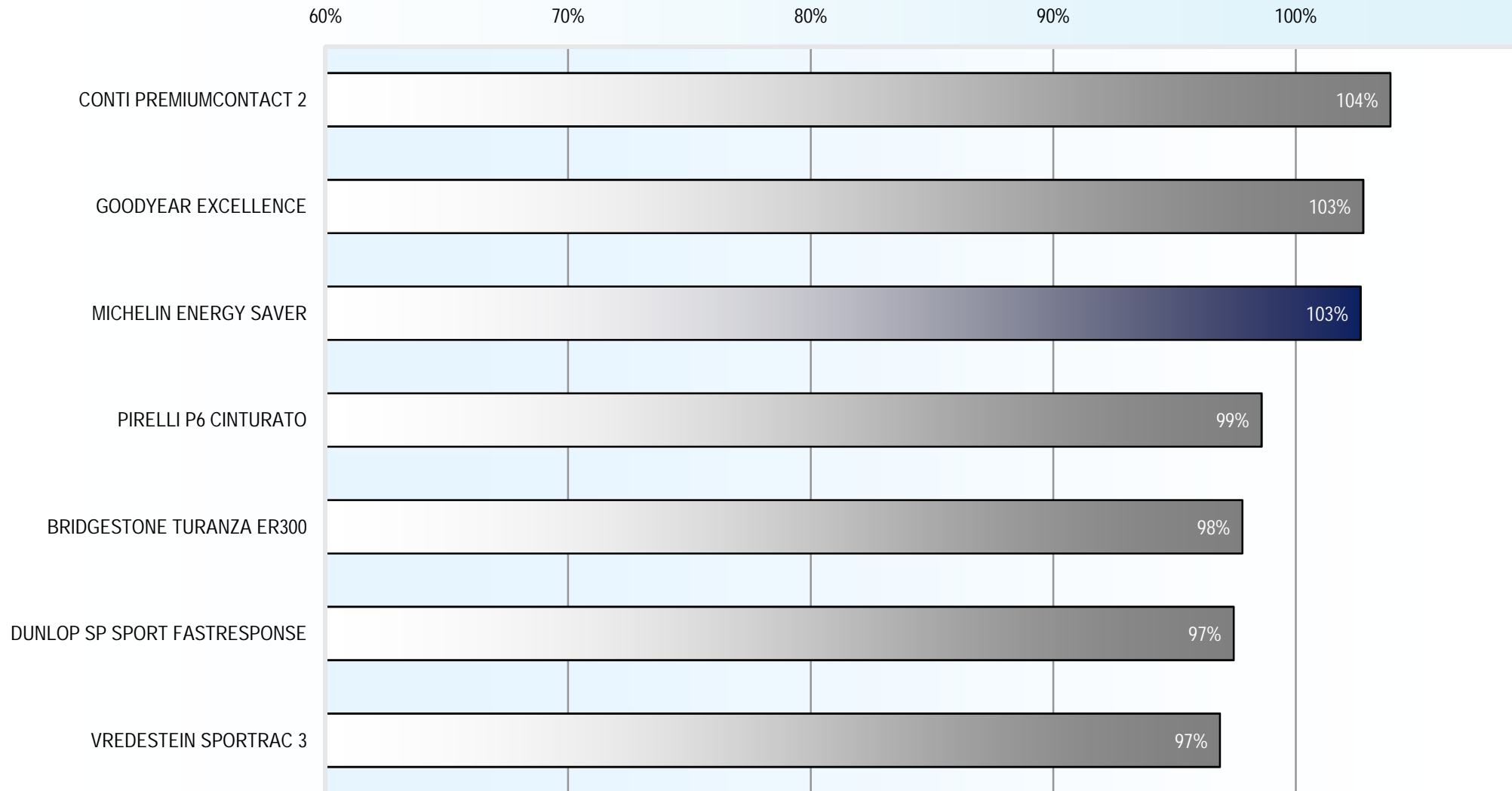


MICHELIN ENERGY SAVER vs. COMPETITORS, BRAKING ON WET SURFACE

SIZE 195/65 R15 91 V:
 WET BRAKING PERFORMANCE (RELATIVE, AVERAGE OF ALL TIRES = 100%)

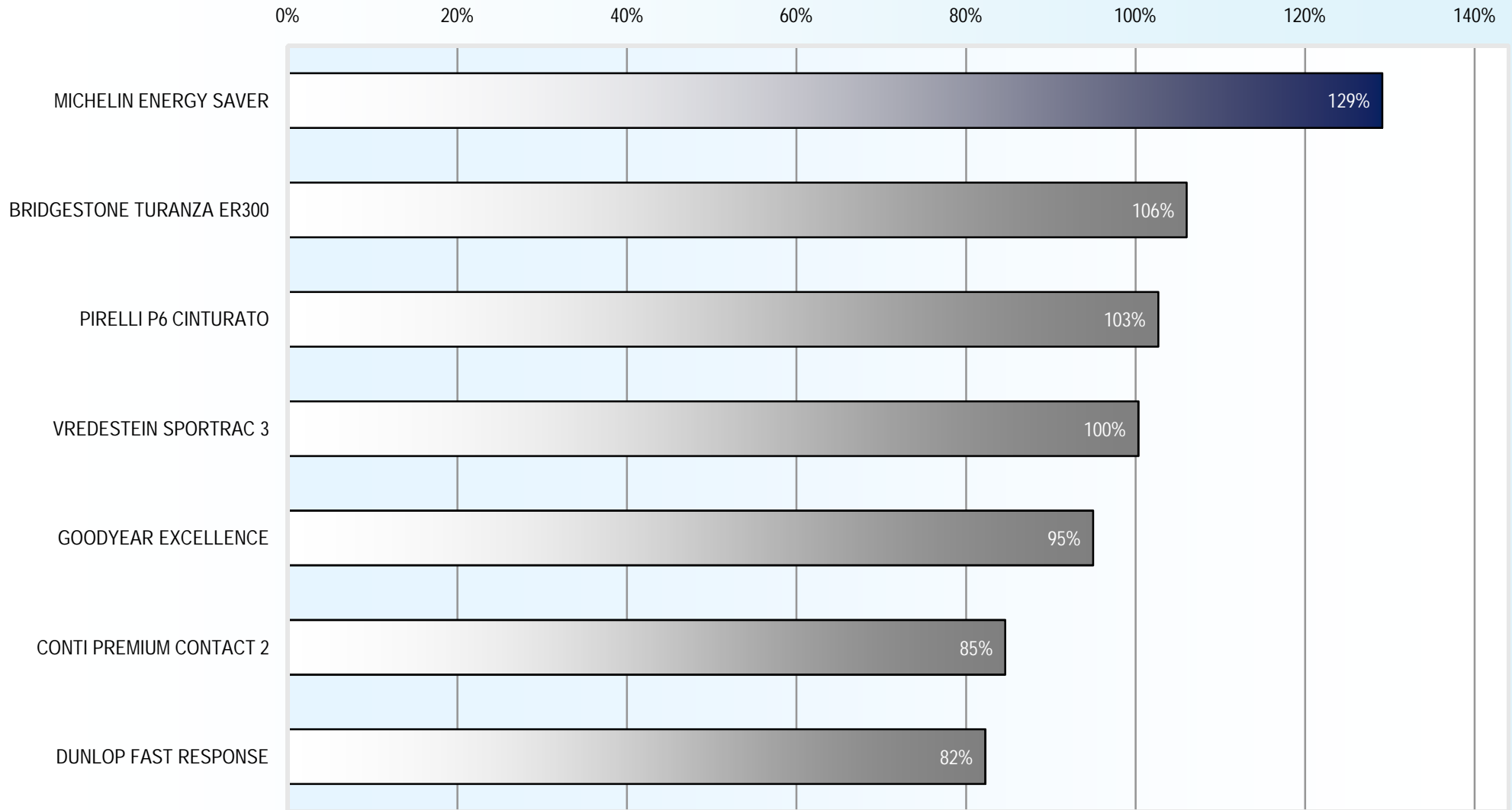


MICHELIN ENERGY SAVER vs. COMPETITORS, BRAKING ON WET SURFACE

BRAKING ON WET SURFACE																				
DATE:	18-Apr-08	AIR TEMP.: min. 10.2°C max. 11.3°C				TIRE SIZE:				195/65 R15 91 V	INFLATION FA:		2.2 bar	TEST VEHICLE:			VW Golf 1.9 TDI	v1 [km/h]:		80
TEST LOCATION:	ATP (D)	SURFACE TEMP.: min. 11.3°C max. 15.3°C				ABS:				on	INFLATION RA:		2.2 bar	TEST SURFACE:			Wet asphalt	v2 [km/h]:		20
TIRE BRAND	CODE	Value x ₁ [m]	Value x ₂ [m]	Value x ₃ [m]	Value x ₄ [m]	Value x ₅ [m]	Value x ₆ [m]	Value x ₇ [m]	Value x ₈ [m]	Ø Braking Distance [m]	Standard Dev. (σ _{n-1}) [m]	Coefficient of Variation [%]	Ø Deceleration [m/s ²]	Reference Value [m/s ²]	Compared to Reference [%]	Difference to Reference [%]	Compared to Ø (Segment) [%]	Difference to Ø (Segment) [%]		
MICHELIN ENERGY SAVER	B 1-1	30,7	30,9	30,8	30,6					30,8	0,13	0,42%	7,53	7,528	100%	0%	103%	3%		
BRIDGESTONE TURANZA ER300	B 2	32,3	32,4	32,8	32,1	32,2	31,9	32,3	31,9	32,2	0,29	0,91%	7,18	7,539	95%	-5%	98%	-2%		
CONTI PREMIUMCONTACT 2	B 3	30,1	30,5	30,2	30,2	30,6	30,3	30,2	30,3	30,3	0,17	0,56%	7,64	7,549	101%	1%	104%	4%		
DUNLOP SP SPORT FASTRESPONSE	B 4	32,5	32,5	32,4	32,2	32,1	32,1	32,1	32,2	32,3	0,18	0,55%	7,17	7,560	95%	-5%	97%	-3%		
MICHELIN ENERGY SAVER	B 1-1(2)	30,8	30,4	30,5	30,6					30,6	0,17	0,56%	7,57	7,571	100%	0%	-	-		
MICHELIN ENERGY SAVER	B 1-2(1)	30,6	30,5	30,8	30,7					30,7	0,13	0,42%	7,55	7,552	100%	0%	-	-		
GOODYEAR EXCELLENCE	B 5	30,9	30,9	30,8	30,8	30,5	30,8	30,5	30,1	30,7	0,28	0,90%	7,55	7,541	100%	0%	103%	3%		
PIRELLI P6 CINTURATO	B 6	31,8	31,9	32,2	31,9	31,8	32,0	32,5	32,0	32,0	0,24	0,74%	7,23	7,530	96%	-4%	99%	-1%		
VREDESTEIN SPORTRAC 3	B 7	33,0	32,7	33,0	33,0	32,5	32,8	32,5	31,9	32,7	0,38	1,15%	7,08	7,508	94%	-6%	97%	-3%		
MICHELIN ENERGY SAVER	B 1-2(2)	30,9	30,7	31,0	30,9					30,9	0,13	0,41%	7,50	7,497	100%	0%	-	-		

MICHELIN ENERGY SAVER vs. COMPETITORS, ROLLING RESISTANCE

SIZE 195/65 R15 91 V:
 LOW ROLLING RESISTANCE PERFORMANCE (RELATIVE, AVERAGE OF ALL TIRES = 100%)



MICHELIN ENERGY SAVER vs. COMPETITORS, ROLLING RESISTANCE

ROLLING RESISTANCE															
TEST LOCATION: TÜV Süd Automotive, Garching		TEST STANDARD: ISO 18164				TIRE SIZE: 195/65 R15 91 V				DRUM Ø: 2000 mm		INFLATION PRESSURE: 2.1 bar			
TEST RIG: H8		TEST METHOD: Electrical power				TEST RIM SIZE: 6 x 15				v: 80 km/h		TEST LOAD: 492 kg			
TIRE BRAND	CODE	T _{Ambient} [°C]	Tire Width [mm]	Tire Weight [kg]	Static Circumference [mm]	Rolling Radius (at 80 km/h) [mm]	Rolling Circumference (at 80 km/h) [mm]	F _R [N]	C _R [kg/t]	F _{R-Aero} [N]	C _{R-Aero}	Compared to Reference [%]	Difference to Reference [%]	Compared to Ø (Segment) [%]	Difference to Ø (Segment) [%]
MICHELIN ENERGY SAVER	B 1	24,4	201,0	7,8	1993,0	288,0	1921,0	41,7	8,6	38,6	8,0	100%	0%	129%	29%
BRIDGESTONE TURANZA ER300	B 2	24,9	206,0	8,8	1995,0	289,0	1921,0	47,9	9,9	45,5	9,4	82%	-18%	106%	6%
CONTI PREMIUM CONTACT 2	B 3	24,6	205,0	8,3	1995,0	288,0	1922,0	54,1	11,1	51,9	10,7	66%	-34%	85%	-15%
DUNLOP FAST RESPONSE	B 4	24,5	204,0	9,1	1996,0	289,0	1924,0	54,4	11,2	52,6	10,8	64%	-36%	82%	-18%
GOODYEAR EXCELLENCE	B 5	25,1	206,0	9,3	1995,0	288,4	1917,0	51,5	10,6	48,8	10,1	74%	-26%	95%	-5%
PIRELLI P6 CINTURATO	B 6	24,9	203,0	8,5	2003,0	289,0	1929,0	49,1	10,1	46,5	9,6	80%	-20%	103%	3%
VREDESTEIN SPORTRAC 3	B7	24,9	204,0	8,5	2011,0	290,0	1933,0	50,0	10,3	47,2	9,7	78%	-22%	100%	0%

TIRE IDENTIFICATION TABLE

TÜV-CODE	POSITION / FUNCTION	DOT-CODE	BRAND	COMMERCIAL NAME	PRODUCTION COUNTRY	SIZE DESIGNATION	TREAD & SIDEWALL INFORMATION	UTOQG-MARKING	SYMMETRY*	DIRECTIONALITY**
B 1-1	FL	HHTA 469X 0708	Michelin	Energy Saver	Italy	195/65 R15 91V	Tread: 1 Polyester 2 Steel 1 Polyamide SW: 1 Polyester	Treadwear: 400 Traction: A Temperature: A	A	N
	FR	HHTA 469X 0708								
	RL	HHTA 469X 0708								
	RR	HHTA 469X 0708								
B 1-2	FL	8C9N L6FT 4007	Michelin	Energy Saver	Italy	195/65 R15 91V	Tread: 1 Polyester 2 Steel 1 Polyamide SW: 1 Polyester	Treadwear: 400 Traction: A Temperature: A	A	N
	FR	8C9N L6FT 4007								
	RL	8C9N L6FT 4007								
	RR	8C9N L6FT 4007								
B 2	FL	8C9N L6FT 4007	Bridgestone	Turanza ER 300	France	195/65 R15 91V	Tread: 1 Nylon 2 Steel 1 Polyester SW: 1 Polyester	Treadwear: 320 Traction: A Temperature: A	A	N
	FR	8C9N L6FT 4007								
	RL	8C9N L6FT 4007								
	RR	8C9N L6FT 4007								
B 3	FL	CNAE A1XF 0808	Continental	Conti PremiumContact 2	France	195/65 R15 91V	Tread: 1 Rayon 2 Steel 2 Nylon SW: 1 Rayon	Treadwear: 280 Traction: AA Temperature: A	A	N
	FR	CNAE A1XF 0808								
	RL	CNAE A1XF 0808								
	RR	CNAE A1XF 0808								
B 4	FL	DMAE 22TR 4407	Dunlop	SP Sport Fast Response	Germany	195/65 R15 91V	Tread: 1 Rayon 2 Steel 1 Nylon SW: 1 Rayon	Treadwear: 280 Traction: A Temperature: A	A	N
	FR	DMAE 22TR 4407								
	RL	DMAE 22TR 4407								
	RR	DMAE 22TR 4407								
B 5	FL	NDAE 2D0R 0508	Goodyear	Excellence	Germany	195/65 R15 91V	Tread: 1 Rayon 2 Steel 1 Polyamide SW: 1 Rayon	Treadwear: 240 Traction: A Temperature: A	A	N
	FR	NDAE 2D0R 0508								
	RL	NDAE 2D0R 0508								
	RR	NDAE 2D0R 0508								
B 6	FL	XAUU K122 1008	Pirelli	P6 Cinturato	Italy	195/65 R15 91V	Tread: 1 Polyester 2 Steel 1 Nylon SW: 1 Polyester	Treadwear: 340 Traction: AA Temperature: A	S	N
	FR	XAUU K122 1008								
	RL	XAUU K122 1008								
	RR	XAUU K122 1008								
B7	FL	DVDE 4907	Vredestein	Sportrac 3	Holland	195/65 R15 91V	Tread: 1 Rayon 2 Steel 1 Nylon SW: 1 Rayon	Treadwear: 300 Traction: A Temperature: A	S	U
	FR	DVDE 4907								
	RL	DVDE 4507								
	RR	DVDE 4507								

*) S: symmetric A: asymmetric **) U: unidirectional N: non-directional