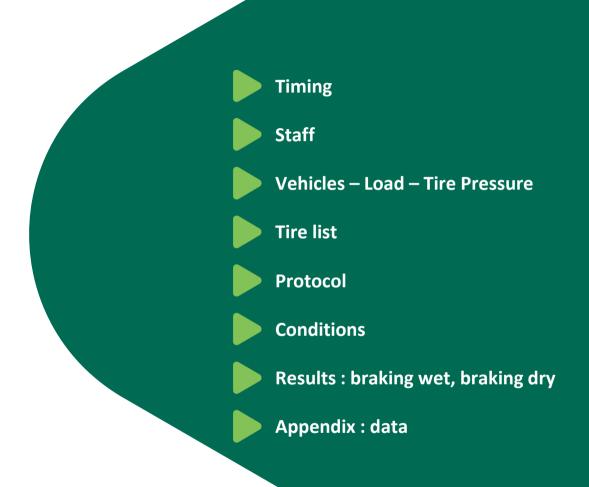


Content

Report 24CPCEXT-225 of 14/11/2024



This report is only valid in its integrality.

An extraction or partial utilization of results for an external publication will be done under PIRELLI responsibility.

Pirelli – Braking Wet & Dry – 225/50 R17 Summer Timing

• Date: Wednesday, November 6th

• Track : Idiada, Braking track - Zone 2

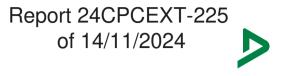
• Type of evaluation : Comparative wet and dry braking

Pirelli – Braking Wet & Dry – 225/50 R17 Summer Staff

- DEKRA Test Center :
 - 1 Engineer performing wet braking and dry braking.

- PIRELLI:
- 2 tire fitters to mount the tires and perform tires change during the test.

Pirelli – Braking Wet & Dry – 225/50 R17 Summer Equipment



Air and track temperature sensor.

1 Racelogic Vbox 100 Hz to measure braking and traction times.

Wind speed follow up.

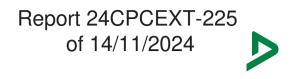
1 lift.

1 vehicle BMW 318d RWD with Engine 2.0L Diesel 150 HP with automatic gearbox.

Vehicle's load: 1 driver

During the test, the driver does not know which tires are mounted on the vehicle.

Pirelli – Braking Wet & Dry – 225/50 R17 Summer



DRIDGESTONE TUTATIZA 0 – 223/30RT/ 30T AL DOT 2/0 TUURSIVI 3	BRIDGESTONE	NE Turanza 6 – 225/50R17 98Y XL	DOT 276 100H3M 3524
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CONTINENTAL Premium Contact 7 – 225/50R17 98Y XL DOT 1CP032PPJ 3124

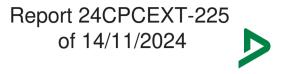
GOODYEAR Efficient Grip Performance 2 – 225/50R17 98W XL DOT 1A540 RB1R 1624 (1324 on Front right)

MICHELIN Primacy 4+ – 225/50R17 98Y XL DOT 1B5 0A08AX 3524

PIRELLI Cinturato – 225/50R17 98Y XL DOT 193 NU439U 3124

Tires have been provided by PIRELLI (for Pirelli, Michelin and Continental & DEKRA Test Center (for Goodyear and Bridgestone)

Pirelli – Braking Wet & Dry – 225/50 R17 Summer Test Protocol



Type of test:

Wet braking distance measurement: from 80 to 10 kph, start of braking at 85 kph + 3 kph.

Surface : wet asphalt

Dry braking distance measurement: from 100 to 10 kph, start of braking at 105 kph + 3 kph

Surface : dry asphalt

Tire Pressure:

Front: 2,3 bar.

Rear: 2,3 bar.

Pirelli – Braking Wet & Dry – 225/50 R17 Summer

Report 24CPCEXT-225 of 14/11/2024

Test conditions

Number of wet braking: 8 performed, 6 are validated for the test. Number of dry braking: 5 performed, 3 are validated for the test.

Temperature:

Air: between 16,7° and 21,5°C

Wet track: between 17,2° and 24,6°C Dry track: between 18,6° and 30,9°C

Wind speed:

100 % of time with wind speed less than 1,0 m/s.

Tire set validation:

Wet braking - standard deviation less than 1,7 %. Difference mini/maxi : 0,97 meter Dry braking - standard deviation less than 0,4 %. Difference mini/maxi : 0,29 meter

Report 24CPCEXT-225 of 14/11/2024

Pirelli – Braking Wet & Dry – 225/50 R17 Summer

Results – Wet braking

Wet braking distance (%) - 80-10 kph

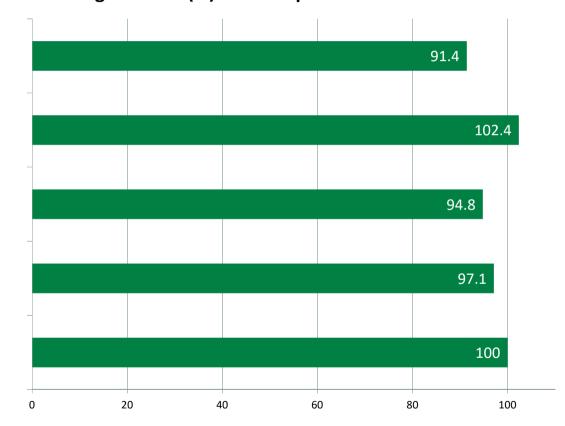
BRIDGESTONE Turanza 6

CONTINENTAL Premium Contact 7

GOODYEAR Efficient Grip Performance 2

MICHELIN Primacy 4+

PIRELLI Cinturato



Min / max braking distance's difference between the best and worst : 2,42 meters

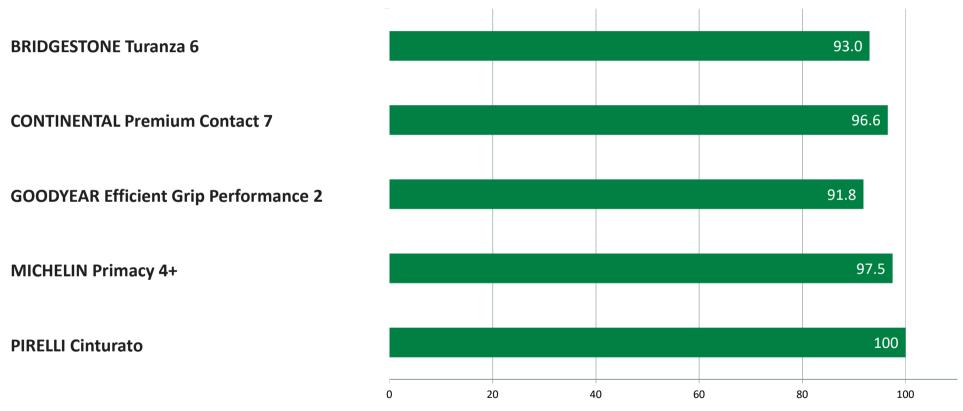
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Report 24CPCEXT-225 of 14/11/2024

Pirelli – Braking Wet & Dry – 225/50 R17 Summer

Results – Dry braking

Dry braking distance (%) - 100 - 10 kph



Min / max traction distance's difference between the best and worst : 2,63 meters

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Pirelli – Braking Wet & Dry – 225/50 R17 Summer

Report 24CPCEXT-225 of 14/11/2024

Appendix: Data

DEKRA Test Center

Your contacts



Mrs Audrey CAUQUIL

Key Account Manager Mobile: +33 (0)7 77 32 22 20 audrey.cauquil@dekra.com

M Stéphane PARRINI

Validation Tests Manager Mobile: +33 (0)6 16 41 54 38 stephane.parrini@dekra.com





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SYNTHESIS - WET BRAKING 80 - 10 KPH SUMMER - 225/50R17 98Y/W

Créateur de confiance

REPORT # 24CPCEXT-225

	Datas (in meters)	Correlation Ratio	Correlated Result	Result %
Result				
MICHELIN Primacy 4+	22.41	1.012	22.69	97.1
PIRELLI Cinturato	21.87	1.008	22.05	100
BRIDGESTONE Turanza 6	23.85	1.004	23.95	91.4
MICHELIN Primacy 4+	22.69	1.000	22.69	97.1
CONTINENTAL Premium Contact 7	21.64	0.995	21.53	102.4
GOODYEAR Efficient Grip Performance 2	23.44	0.990	23.20	94.8
MICHELIN Primacy 4+	23.04	0.985	22.69	97.1
Ranking				
		Ranking		Result %
CONTINENTAL Premium Contact 7		1st		102.4
PIRELLI Cinturato		2nd		100
MICHELIN Primacy 4+		3rd		97.1
GOODYEAR Efficient Grip Performance 2		4th		94.8
BRIDGESTONE Turanza 6		5th		91.4



Créateur de confiance

REPORT # 24CPCEXT-225

MICHELIN Primacy 4+ - 225/50R1	7 98Y XL			Date	06/11/2024
Beginning	Time	08:40	<u>End</u>	Time	09:10
				Air Temperature	16.7
				Track Temperature	18.6
				Wind speed	< 1 m/s

File michelin 2dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1	32.59		0.041096093
Frein 2		33.31	
Frein 3		33.25	
Frein 4		33.35	Average
Frein 5			33.30
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.1



Créateur de confiance

REPORT # 24CPCEXT-225

PIRELLI Cinturato – 225/50R17 98Y XL				Date	06/11/2024
Beginning	Time	09:30	<u>End</u>	Time	10:05
				Air Temperature	19.1
				Track Temperature	21.7
				Wind speed	< 1 m/s

File pirelli 2dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1		32.42	0.043204938
Frein 2		32.34	
Frein 3	32.61		
Frein 4	32.19		Average
Frein 5		32.32	32.36
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.1



Créateur de confiance

REPORT # 24CPCEXT-225

BRIDGESTONE Turanza 6 – 225/	/50R17 98Y XL			Date	06/11/2024
Beginning	Time	10:20	<u>End</u>	Time	11:00
				Air Temperature	20.2
				Track Temperature	25.3
				Wind speed	< 1 m/s

File bridgestone 2dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1		34.55	0.058878406
Frein 2		34.41	
Frein 3	34.72		
Frein 4	34.82		Average
Frein 5		34.51	34.49
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.2



Créateur de confiance

REPORT # 24CPCEXT-225

MICHELIN Primacy 4+ – 225/50R17 98Y XL				Date	06/11/2024
Beginning	Time	11:20	<u>End</u>	Time	11:50
				Air Temperature	20.6
				Track Temperature	27.6
				Wind speed	< 1 m/s

File michelin 4dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1		32.83	0.134412301
Frein 2		32.82	
Frein 3	33.40		
Frein 4		33.11	Average
Frein 5			32.92
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.4



Créateur de confiance

REPORT # 24CPCEXT-225

CONTINENTAL Premium Con	tact 7 - 225/50R17 98Y X	(L		Date	06/11/2024
Beginning	Time	12:00	<u>End</u>	Time	12:35
				Air Temperature	21.4
				Track Temperature	27.8
				Wind speed	< 1 m/s

File continental 2dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1	32.80		0.118977122
Frein 2	33.51		
Frein 3		33.19	
Frein 4		32.96	Average
Frein 5		33.23	33.13
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.4



Créateur de confiance

REPORT # 24CPCEXT-225

GOODYEAR Efficient Grip Performance 2 – 225/50R17 98W XL				Date	06/11/2024
Beginning	Time	13:00	<u>End</u>	Time	13:30
				Air Temperature	21.8
				Track Temperature	29.3
				Wind speed	< 1 m/s

File goodyear 2dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1	34.34		0.063420992
Frein 2		34.49	
Frein 3		34.64	
Frein 4		34.53	Average
Frein 5	34.25		34.55
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.2



Créateur de confiance

REPORT # 24CPCEXT-225

MICHELIN Primacy 4+ – 225/50R17 98Y XL				Date	06/11/2024
Beginning	Time	13:45	<u>End</u>	Time	14:15
				Air Temperature	21.5
				Track Temperature	30.9
				Wind speed	< 1 m/s

File michelin 6dry

	Dry Braking 100 - 10 km/h Distance (m)	Wet Braking Distance validated	Std Dev.
Frein 1		32.71	0.080138769
Frein 2		32.54	
Frein 3		32.71	
Frein 4	33.03		Average
Frein 5			32.65
Frein 6			
Frein 7			
Frein 8			Coef variation
			0.2



SYNTHESIS - DRY BRAKING 100 - 10 KPH SUMMER - 225/50R17 98Y/W

Créateur de confiance

REPORT # 24CPCEXT-225

	Datas (in meters)	Result %		
Result				
MICHELIN Primacy 4+	33.30	0.989	32.92	97.5
PIRELLI Cinturato	32.36	0.992	32.11	100
BRIDGESTONE Turanza 6	34.49	0.996	34.36	93.0
MICHELIN Primacy 4+	32.92	1.000	32.92	97.5
CONTINENTAL Premium Contact 7	33.13	1.003	33.22	96.6
GOODYEAR Efficient Grip Performance 2	34.55	1.006	34.74	91.8
MICHELIN Primacy 4+	32.65	1.008	32.92	97.5
Ranking				
	Ranking			Result
		Name		%
PIRELLI Cinturato		1st		100
MICHELIN Primacy 4+		2nd		97.5
CONTINENTAL Premium Contact 7	CONTINENTAL Premium Contact 7			96.6
BRIDGESTONE Turanza 6		4th		93.0
GOODYEAR Efficient Grip Performance 2		5th		91.8