

**Report No.** BRK180221/1

**Project Code** 18DIN\_TOMKET\_TYRE\_TESTS

## **Tyre performance, evaluation on: Stopping Distance**

- TOMKET Sport & 3 (Reference tyre) 16" & 17"
- MICHELIN Energy Saver 16"
- KLEBER Dynaxer HP3 16" & 17"
- BARUM Bravuris 3HM 16"
- MICHELIN Primacy 3 17"

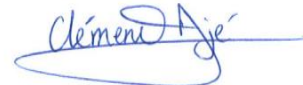
Tyre size:  
205/55 R16 & 225/45 R17

Client's reference:

TOMKET

Performed by:

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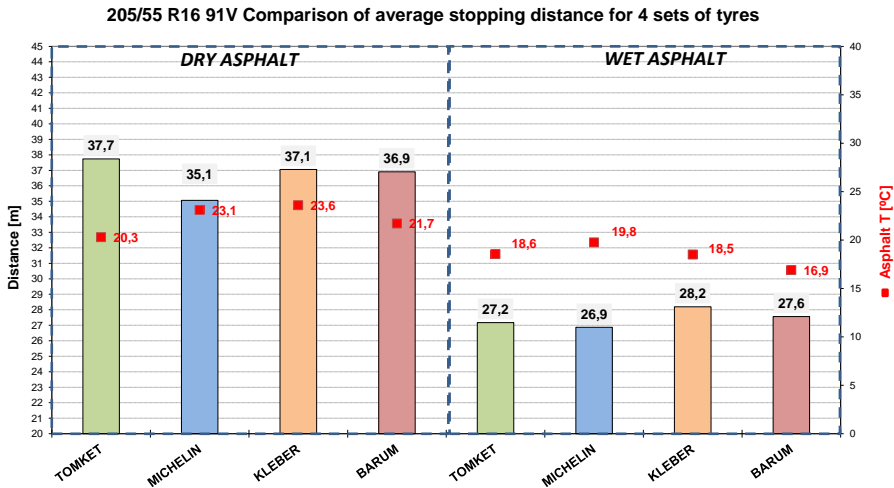
## **1. OBJECT**

The objective of this project is to perform Stopping distance evaluation performance tests on 4 sets of 205/55 R16 tyres & 3 sets of 225/45 R17 tyres. Tests have been done on two different surfaces, dry & wet asphalt.

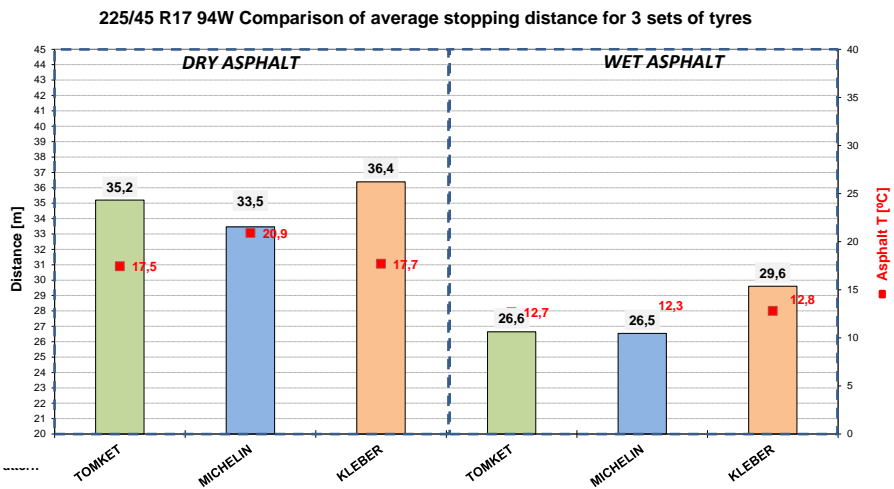
## 2. MAIN RESULTS

The following graph summarizes the stopping distance performance for the 4 sets of tyres 205/55 R16 and 3 sets of tyres 225/45 R17.

Graph 1: Stopping distance



Graph 2: Stopping distance



Dry asphalt stopping distance: 100 to 0 km/h.





Wet asphalt stopping distance: 80 to 0 km/h.

Legend:

- SET 1: 205/55R16TOMKET Sport (reference tyre)
- SET2: 205/55 R16 MICHELIN Energy Saver
- SET 3: 205/55 R16 KLEBER Dynaxer HP3
- SET 4: 205/55 R16 BARUM Bravuris3HM
- SET 5 :225/45 R17TOMKET Sport 3 (reference tyre)
- SET 6: 225/45 R17 MICHELIN Primacy 3
- SET 7: 225/45 R17 KLEBER Dynaxer HP3

### 3. VEHICLE SPECIFICATIONS

The vehicle used for the stopping distance tests had the following characteristics:

GENERAL	
Model	Volkswagen Golf 1.4 TSI
VIN	WWZZZAUZJW104595
Engine	Petrol
Transmission	Manual
Body	5 doors, wagon
Weight used in tests	
DOW (kg) (FL - FR / RL - RR = Total)	418 - 381 / 286 - 275 = 1350 kg
CHASSIS	
• Wheel Base [mm]	2620
• Wheels	15 x 6J Steal
• Tyre pressure used in tests (Fr / Rr)	2.4 / 2.4 bar
TEST VEHICLE	
	
INSTRUMENTATION	
	
	

#### 4. TIRES SPECIFICATIONS

- SET - 1: TOMKET Sport 3

Tyres description	
Brand	TOMKET (Reference)
Commercial name	Tomket Sport
Made-in	China
Full tyre size designation	205/55 R16 91V
Directionality	No
e / E approval numbers	E2/0209834 / 0213002 S2WR2
DOT code	N4WC OF2X 5017
Tyres pictures	
	

- SET - 2: MICHELIN Energy Saver

Tyres description	
Brand	MICHELIN
Commercial name	Energy Saver
Made-in	Germany
Full tyre size designation	205/55 R16 91V
Directionality	No
e / E approval numbers	E2 0211573 / 0212501 S2WR2
DOT code	FUWC 02NX 0218
Tyres pictures	
	

○ SET - 3: KLEBER HP3 Dynaxer

Tyres description	
Brand	KLEBER
Commercial name	Dynaxer HP3
Made-in	Romania
Full tyre size designation	205/55 R16 91V
Directionality	No
e / E approval numbers	E5 0209834 / 0213002 S2WR2
DOT code	N4WC 0F2X 5017
Tyres pictures	
	

○ SET - 4: BARUM Bravuris 3HM

Tyres description	
Brand	BARUM
Commercial name	Bravuris 3HM
Made-in	Germany
Full tyre size designation	205/55 R16 91V
Directionality	No
e / E approval numbers	E4 0269319 / 023315 S2WR2
DOT code	CPO FWIMV 0118
Tyres pictures	
	

○ SET - 5: TOMKET Sport 3

Tyres description	
Brand	TOMKET
Commercial name	Tomket Sport 3
Made-in	China
Full tyre size designation	225/45 R17 94W
Directionality	No
e / E approval numbers	E4 024776 / 0265662 S2WR2
DOT code	1OU F2DUHP
Tyres pictures	
	

○ SET - 6: MICHELIN Primacy 3

Tyres description	
Brand	MICHELIN
Commercial name	Primacy 3
Made-in	Spain
Full tyre size designation	225/45 R17 94W
Directionality	No
e / E approval numbers	E2 0210426 / 0212504 S2WR2
DOT code	HC8A 026X 0217
Tyres pictures	
	



- SET - 7: KLEBER Dynaxer HP3

Tyres description	
Brand	KLEBER
Commercial name	Dynaxer HP3
Made-in	Romania
Full tyre size designation	225/45 R17 94W
Directionality	No
e / E approval numbers	E2 0212810 / 0213002 S2WR2
DOT code	N48A 04VX 0216
Tyres pictures	
	

## 5. RESULTS OF OBJECTIVE TESTS

### 5.1. Stopping distance on dry surface (100 to 0 km/h).

#### Principle

The objective of this test is to evaluate the tyre longitudinal grip on dry surface when braking.

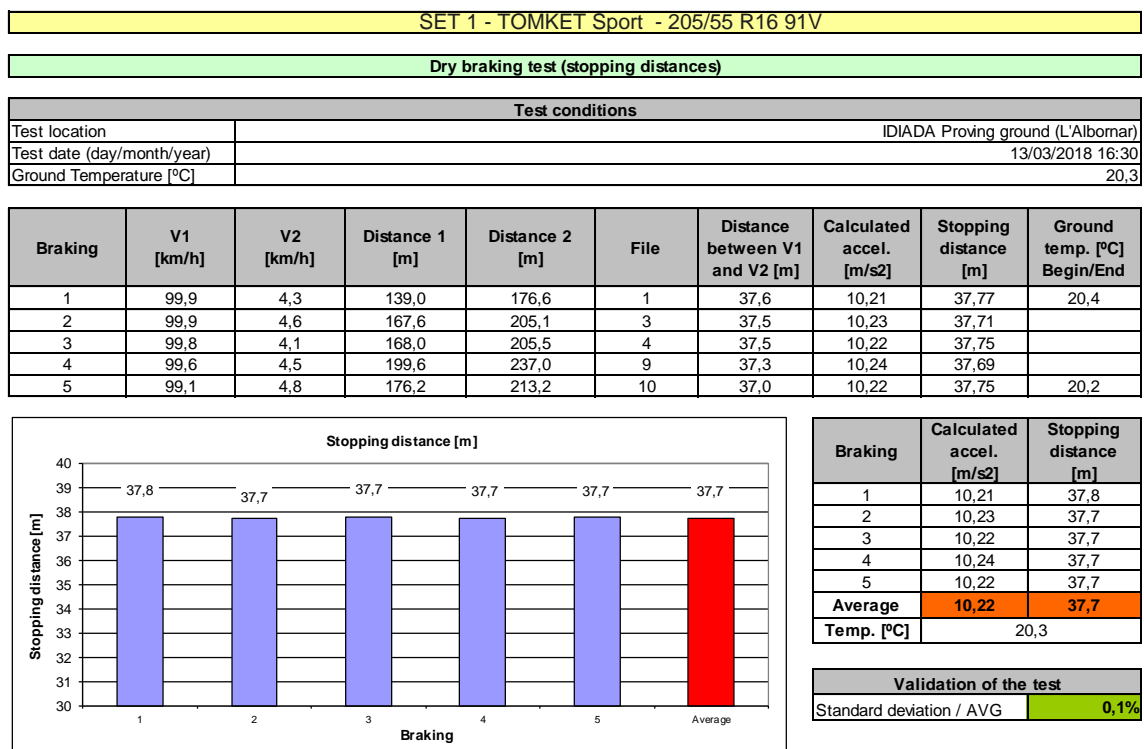
#### Procedure

The driver enters the dry asphalt braking track at 110 km/h. At marked position, he presses the clutch and lets the car roll until 105 km/h when full ABS Brake is applied until the car is stopped.

The test is repeated until a minimum of 5 valid runs are obtained (with similar stopping distances).

#### Results

In order to be sure that the deceleration is stabilized in the range taken into account, the deceleration from 100 to 5 km/h is considered. The stopping distance is extrapolated from 100 to 0 km/h. The final result (in orange in the tables below) is the average of the 5 stopping distances.



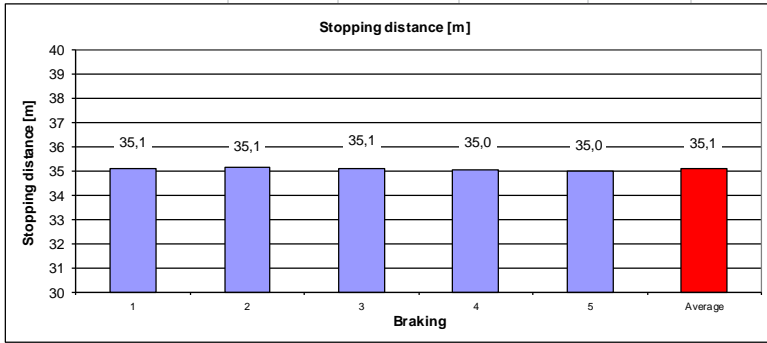
**SET 2 - MICHELIN Energy Saver - 205/55 R16 91V**

**Dry braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	13/03/2018 14:45
Ground Temperature [°C]	23,1

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	99,8	4,1	167,3	202,1	1	34,9	11,00	35,08	23,8
2	98,4	4,0	178,0	212,0	4	34,0	10,98	35,13	
3	99,6	3,5	179,1	213,9	6	34,8	10,99	35,09	
4	99,6	4,8	190,4	225,1	7	34,7	11,01	35,03	
5	99,9	4,5	166,0	200,8	8	34,8	11,03	34,97	22,4



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	11,00	35,1
2	10,98	35,1
3	10,99	35,1
4	11,01	35,0
5	11,03	35,0
<b>Average</b>	<b>11,00</b>	<b>35,1</b>
<b>Temp. [°C]</b>	23,1	

Validation of the test	
Standard deviation / AVG	0,2%

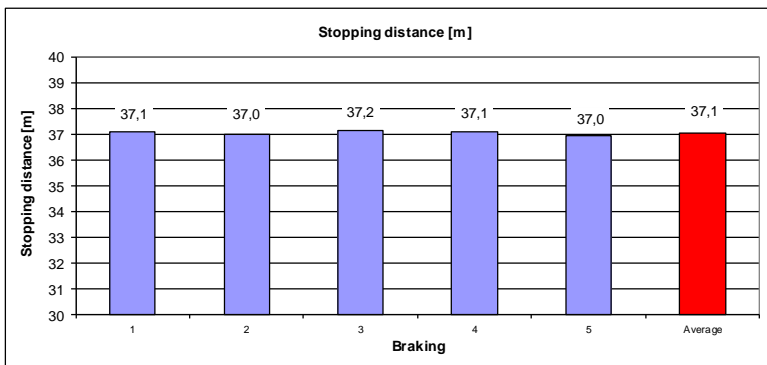
**SET 3 - KLEBER Dynaxer HP3 - 205/55 R16 91V**

**Dry braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	13/03/2018 12:20
Ground Temperature [°C]	23,6

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	99,8	4,8	135,2	172,0	2	36,8	10,40	37,08	24,4
2	99,0	4,9	188,7	224,8	4	36,2	10,43	37,00	
3	99,6	4,0	166,4	203,2	5	36,8	10,38	37,15	
4	99,6	4,8	138,1	174,8	7	36,7	10,40	37,09	
5	99,8	4,0	175,8	212,5	9	36,7	10,44	36,95	22,8



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	10,40	37,1
2	10,43	37,0
3	10,38	37,2
4	10,40	37,1
5	10,44	37,0
<b>Average</b>	<b>10,41</b>	<b>37,1</b>
<b>Temp. [°C]</b>	23,6	

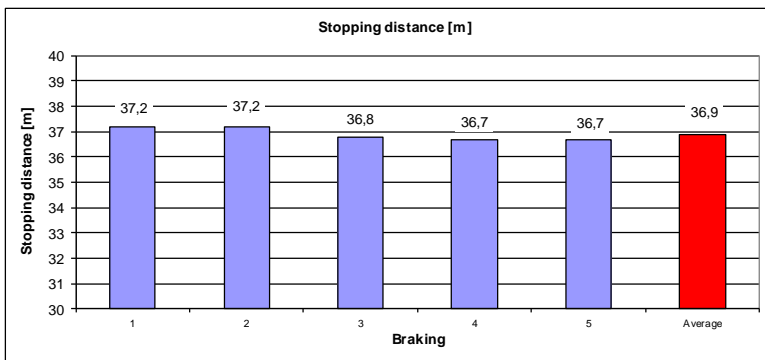
Validation of the test	
Standard deviation / AVG	0,2%

**SET 4 - BARUM - 205/55 R16 91V**

**Dry braking test (stopping distances)**

Test conditions	
Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	13/03/2018 10:30
Ground Temperature [°C]	21,7

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	98,6	4,9	237,1	273,2	4	36,1	10,37	37,21	18,8
2	98,3	4,9	178,7	214,5	5	35,9	10,37	37,21	
3	99,8	3,9	194,6	231,1	6	36,5	10,49	36,76	
4	99,8	4,9	201,3	237,7	7	36,4	10,52	36,66	
5	99,9	4,1	190,9	227,5	8	36,5	10,52	36,67	24,6



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	10,37	37,2
2	10,37	37,2
3	10,49	36,8
4	10,52	36,7
5	10,52	36,7
<b>Average</b>	<b>10,45</b>	<b>36,9</b>
Temp. [°C]	21,7	

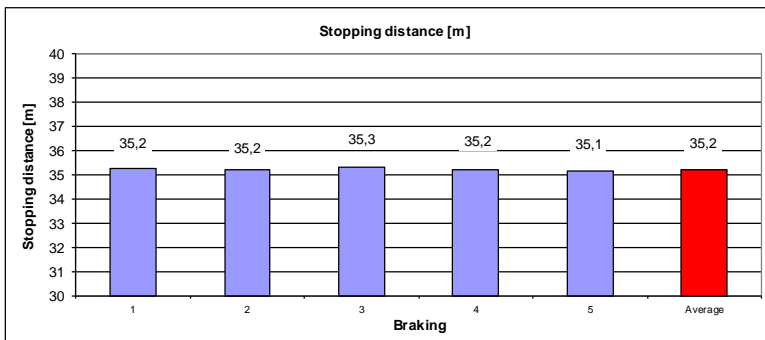
Validation of the test	
Standard deviation / AVG	<b>0,8%</b>

**TOMKET Sport 3 SET 5 - 225/45 R17 94W**

**Dry braking test (stopping distances)**

Test conditions	
Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	02/03/2018 14:40
Ground Temperature [°C]	17,5

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	99,6	4,9	108,7	143,6	1	34,9	10,96	35,21	17,6
2	99,6	4,9	108,7	143,5	2	34,8	10,96	35,19	
3	100,0	4,9	114,3	149,4	7	35,2	10,94	35,27	
4	99,8	4,9	110,0	145,0	9	35,0	10,96	35,19	
5	99,9	5,0	107,1	142,1	10	35,0	10,98	35,13	17,3



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	10,96	35,2
2	10,96	35,2
3	10,94	35,3
4	10,96	35,2
5	10,98	35,1
<b>Average</b>	<b>10,96</b>	<b>35,2</b>
Temp. [°C]	17,5	

Validation of the test	
Standard deviation / AVG	<b>0,1%</b>

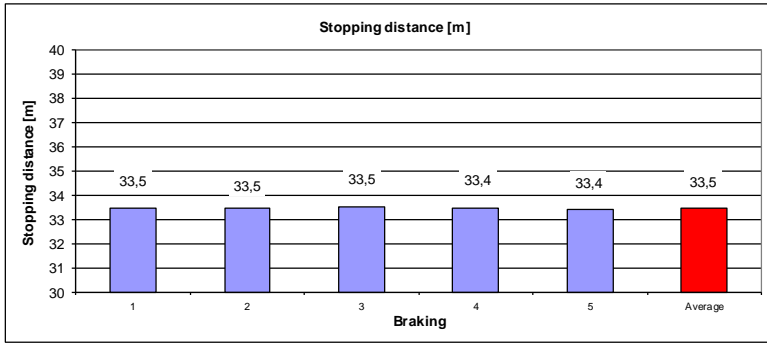
**MICHELI Primacy 3 SET 6 - 225/45 R17 94W**

**Dry braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	02/03/2018 15:25
Ground Temperature [°C]	20,9

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	99,9	4,8	111,8	145,2	1	33,3	11,53	33,46	21,3
2	99,6	4,8	96,4	129,6	5	33,1	11,53	33,47	
3	99,8	4,9	118,0	151,3	7	33,3	11,52	33,50	
4	99,9	4,9	101,9	135,3	9	33,3	11,53	33,45	
5	99,6	4,8	117,6	150,7	12	33,1	11,55	33,40	20,5



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	11,53	33,5
2	11,53	33,5
3	11,52	33,5
4	11,53	33,4
5	11,55	33,4
<b>Average</b>	<b>11,53</b>	<b>33,5</b>
<b>Temp. [°C]</b>	20,9	

Validation of the test	
Standard deviation / AVG	0,1%

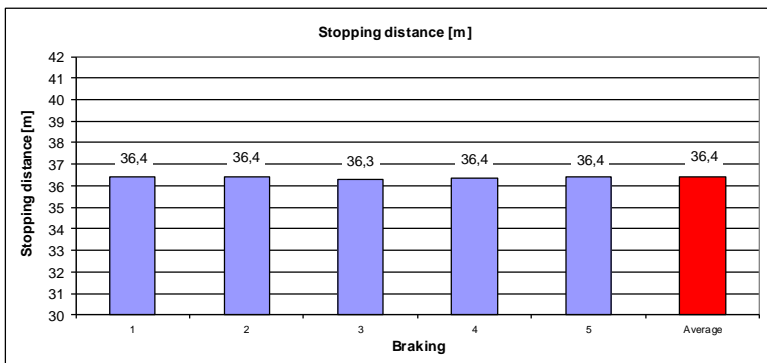
**KLEBER Dynarex HP3 SET 7 - 225/45 R17 94W**

**Dry braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	02/03/2018 13:35
Ground Temperature [°C]	17,7

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
1	99,7	4,7	148,1	184,2	2	36,1	10,59	36,43	17,3
2	99,7	4,9	129,2	165,3	4	36,1	10,60	36,38	
3	99,9	4,7	110,5	146,7	7	36,1	10,62	36,32	
4	99,8	4,9	151,0	187,1	8	36,1	10,61	36,38	
5	99,7	4,6	106,6	142,7	12	36,1	10,59	36,42	18,1



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
1	10,59	36,4
2	10,60	36,4
3	10,62	36,3
4	10,61	36,4
5	10,59	36,4
<b>Average</b>	<b>10,60</b>	<b>36,4</b>
<b>Temp. [°C]</b>	17,7	

Validation of the test	
Standard deviation / AVG	0,1%

## 5.2. Stopping distance on wet surface (80 to 0 km/h).

### Principle

The objective of this test is to evaluate the tyre longitudinal grip on wet surface when braking.

### Procedure

The driver enters the wet asphalt braking track at 90 km/h. At marked position, he presses the clutch and lets the car roll until 85 km/h when full ABS Brake is applied until the car is stopped.

The test is repeated until a minimum of 5 valid runs are obtained (with similar stopping distances).

### Results

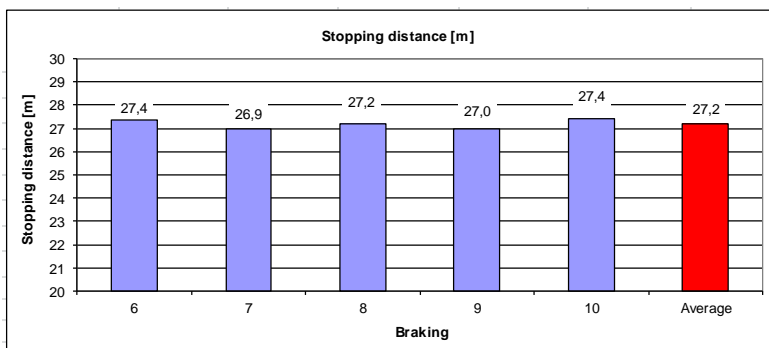
In order to be sure that the deceleration is stabilized in the range taken into account, the deceleration from 80 to 5 km/h is considered. The stopping distance is extrapolated from 80 to 0 km/h. The final result (in orange in the tables below) is the average of the 5 stopping distances.

SET 1 - TOMKET Sport - 205/55 R16 91V

Wet braking test (stopping distances)

Test conditions	
Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	09/03/2018 12:05
Ground Temperature [°C]	18,6

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	80,0	4,3	160,9	188,2	4	27,3	9,02	27,37	18,2
7	79,9	4,8	136,9	163,6	7	26,8	9,16	26,95	
8	79,6	4,8	127,8	154,6	8	26,8	9,09	27,17	
9	79,6	5,0	146,7	173,3	9	26,6	9,16	26,95	
10	79,6	4,1	145,1	172,2	11	27,1	9,01	27,41	18,9



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	9,02	27,4
7	9,16	26,9
8	9,09	27,2
9	9,16	27,0
10	9,01	27,4
<b>Average</b>	<b>9,09</b>	<b>27,2</b>
Temp. [°C]	18,6	

Validation of the test	
Standard deviation / AVG	<b>0,8%</b>

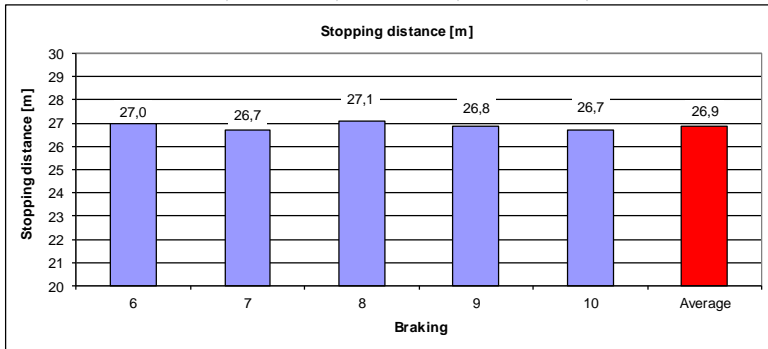
**SET 2 - MICHELIN Energy Saver - 205/55 R16 91V**

**Wet braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	09/03/2018 14:30
Ground Temperature [°C]	19,8

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	79,5	4,7	71,3	97,9	7	26,6	9,15	27,00	20,0
7	79,4	4,8	108,2	134,4	9	26,2	9,24	26,71	
8	78,6	4,1	103,2	129,3	10	26,1	9,12	27,07	
9	79,8	4,7	86,2	112,8	12	26,6	9,20	26,84	
10	79,8	3,5	84,6	111,1	13	26,5	9,24	26,72	19,5



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	9,15	27,0
7	9,24	26,7
8	9,12	27,1
9	9,20	26,8
10	9,24	26,7
<b>Average</b>	<b>9,19</b>	<b>26,9</b>
<b>Temp. [°C]</b>	19,8	

Validation of the test	
Standard deviation / AVG	<b>0,6%</b>

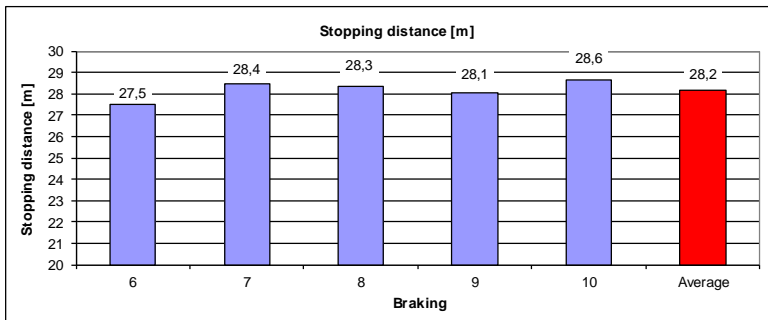
**SET 3 - KLEBER Dynaxer HP3 - 205/55 R16 91V**

**Wet braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	09/03/2018 15:30
Ground Temperature [°C]	18,5

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	79,3	5,0	116,1	142,9	4	26,9	8,98	27,48	18,9
7	79,0	4,6	138,9	166,6	5	27,7	8,68	28,45	
8	78,9	5,0	132,9	160,3	6	27,4	8,72	28,32	
9	79,4	4,5	119,9	147,5	7	27,5	8,80	28,07	
10	79,5	4,3	100,4	128,6	8	28,2	8,62	28,63	18,1



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	8,98	27,5
7	8,68	28,4
8	8,72	28,3
9	8,80	28,1
10	8,62	28,6
<b>Average</b>	<b>8,76</b>	<b>28,2</b>
<b>Temp. [°C]</b>	18,5	

Validation of the test	
Standard deviation / AVG	<b>1,6%</b>

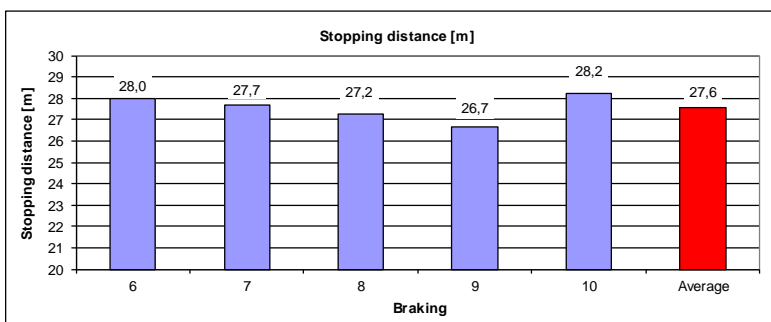
SET 4 - BARUM - 205/55 R16 91V

Wet braking test (stopping distances)

Test conditions

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	09/03/2018 17:50
Ground Temperature [°C]	16,9

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	79,3	4,5	122,2	149,7	3	27,4	8,82	28,01	17,2
7	79,8	4,6	88,8	116,2	4	27,5	8,92	27,68	
8	79,9	4,9	100,9	128,0	5	27,1	9,06	27,24	
9	79,4	4,9	86,9	113,1	6	26,2	9,26	26,67	
10	79,3	3,2	98,7	126,4	12	27,7	8,75	28,22	16,6



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	8,82	28,0
7	8,92	27,7
8	9,06	27,2
9	9,26	26,7
10	8,75	28,2
<b>Average</b>	<b>8,96</b>	<b>27,6</b>
<b>Temp. [°C]</b>	16,9	

Validation of the test	
Standard deviation / AVG	2,3%

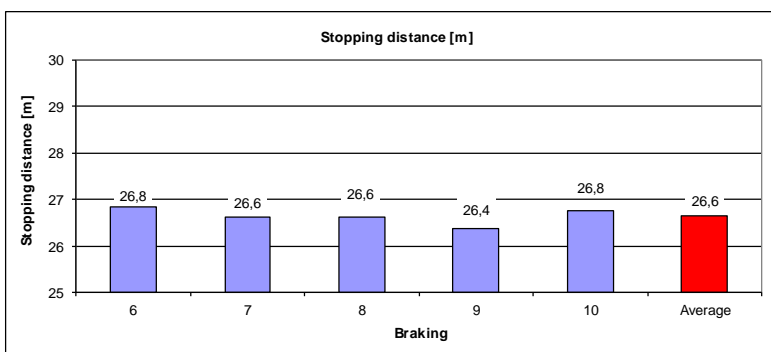
TOMKET Sport 3 SET 5 - 225/45 R17 94W

Wet braking test (stopping distances)

Test conditions

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	01/03/2018 14:15
Ground Temperature [°C]	12,7

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	79,9	5,0	156,6	183,2	3	26,6	9,20	26,84	12,5
7	79,9	4,8	134,6	161,0	5	26,4	9,28	26,61	
8	79,8	4,9	132,4	158,8	7	26,4	9,27	26,63	
9	79,8	4,6	127,9	154,1	9	26,2	9,36	26,38	
10	79,7	4,9	132,9	159,3	12	26,5	9,23	26,76	12,8



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	9,20	26,8
7	9,28	26,6
8	9,27	26,6
9	9,36	26,4
10	9,23	26,8
<b>Average</b>	<b>9,27</b>	<b>26,6</b>
<b>Temp. [°C]</b>	12,7	

Validation of the test	
Standard deviation / AVG	0,7%



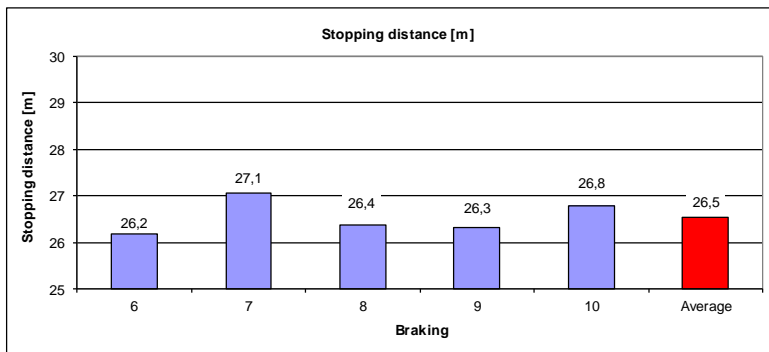
**MICHELI Primacy 3 SET 6 - 225/45 R17 94W**

**Wet braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	01/03/2018 11:20
Ground Temperature [°C]	12,3

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	80,0	4,9	162,1	188,1	5	26,0	9,43	26,18	12,0
7	79,7	4,6	166,9	193,7	7	26,8	9,13	27,05	
8	79,7	4,6	132,3	158,4	8	26,1	9,36	26,37	
9	79,9	4,9	132,9	159,1	11	26,2	9,38	26,33	
10	80,0	4,9	136,0	162,7	13	26,7	9,22	26,79	12,6



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	9,43	26,2
7	9,13	27,1
8	9,36	26,4
9	9,38	26,3
10	9,22	26,8
<b>Average</b>	<b>9,30</b>	<b>26,5</b>
<b>Temp. [°C]</b>	12,3	

Validation of the test	
Standard deviation / AVG	1,4%

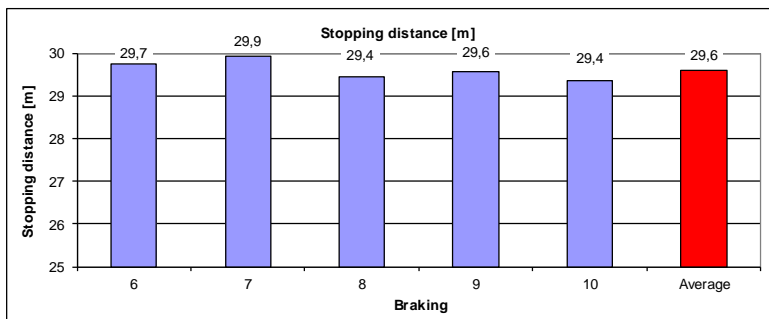
**KLEBER Dynarex HP3 SET 7 - 225/45 R17 94W**

**Wet braking test (stopping distances)**

**Test conditions**

Test location	IDIADA Proving ground (L'Albomar)
Test date (day/month/year)	01/03/2018 15:35
Ground Temperature [°C]	12,8

Braking	V1 [km/h]	V2 [km/h]	Distance 1 [m]	Distance 2 [m]	File	Distance between V1 and V2 [m]	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]	Ground temp. [°C] Begin/End
6	80,0	4,9	126,9	156,5	2	29,6	8,31	29,73	13,2
7	79,7	4,9	103,3	132,8	4	29,6	8,25	29,91	
8	79,6	4,9	123,3	152,3	5	29,0	8,39	29,44	
9	79,7	4,8	113,7	142,9	8	29,2	8,35	29,58	
10	79,9	4,8	128,0	157,2	12	29,2	8,41	29,36	12,4



Braking	Calculated accel. [m/s <sup>2</sup> ]	Stopping distance [m]
6	8,31	29,7
7	8,25	29,9
8	8,39	29,4
9	8,35	29,6
10	8,41	29,4
<b>Average</b>	<b>8,34</b>	<b>29,6</b>
<b>Temp. [°C]</b>	12,8	

Validation of the test	
Standard deviation / AVG	0,8%