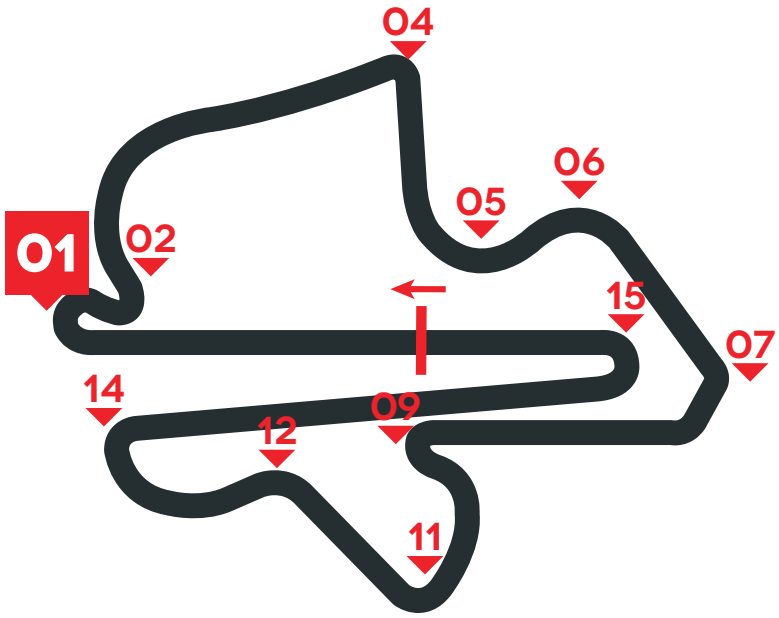
MOTOGP 2019 SHELL MALAYSIA
MOTORCYCLE GRAND PRIX

BRAKES EFFORT **VERY HARD**

TIME SPENT BRAKING **32%**

BRAKE CIRCUIT IDENTITY CARDS
01-03 NOV 2019



brembo DATA

The Sepang racetrack is one of the longest tracks of the MotoGP and is one of the hardest on motorcycles braking systems.
Several hard cut outs among which the first and last braking are particularly demanding and characterized by sharp decelerations with G-Force greater than 1.5 g and over 200 km/h (124 mph) difference between initial and final speed.
The numerous cut outs, the high % of time spend braking and the tropical climate make managing temperatures rather critical both for the brakes and for the drivers.

CIRCUIT DATA

Length: 5,543 m - Number of laps: 20
Number of brake zones/lap: 11

IMPORTANT

*TURN 01 is considered the most demanding for the braking system.

01*		
Initial speed	319	(Km/h)
Final speed	70	(Km/h)
Stopping distance	293	(m)
Braking time	6.1	(sec)
Maximum deceleration	1.5	(g)
Max force on lever	5.8	(Kg)

02		
Initial speed	91	(Km/h)
Final speed	66	(Km/h)
Stopping distance	34	(m)
Braking time	1.5	(sec)
Maximum deceleration	0.7	(g)
Max force on lever	1.8	(Kg)

04		
Initial speed	263	(Km/h)
Final speed	85	(Km/h)
Stopping distance	202	(m)
Braking time	4.5	(sec)
Maximum deceleration	1.3	(g)
Max force on lever	5	(Kg)

05		
Initial speed	183	(Km/h)
Final speed	149	(Km/h)
Stopping distance	98	(m)
Braking time	2.1	(sec)
Maximum deceleration	0.6	(g)
Max force on lever	0.8	(Kg)

06		
Initial speed	166	(Km/h)
Final speed	140	(Km/h)
Stopping distance	65	(m)
Braking time	1.5	(sec)
Maximum deceleration	0.7	(g)
Max force on lever	1.6	(Kg)

07		
Initial speed	231	(Km/h)
Final speed	120	(Km/h)
Stopping distance	160	(m)
Braking time	3.5	(sec)
Maximum deceleration	1.2	(g)
Max force on lever	4.4	(Kg)

09		
Initial speed	250	(Km/h)
Final speed	62	(Km/h)
Stopping distance	201	(m)
Braking time	5	(sec)
Maximum deceleration	1.3	(g)
Max force on lever	5	(Kg)

11		
Initial speed	158	(Km/h)
Final speed	101	(Km/h)
Stopping distance	94	(m)
Braking time	2.7	(sec)
Maximum deceleration	0.9	(g)
Max force on lever	3.3	(Kg)

12		
Initial speed	205	(Km/h)
Final speed	152	(Km/h)
Stopping distance	99	(m)
Braking time	2	(sec)
Maximum deceleration	0.9	(g)
Max force on lever	2.8	(Kg)

14		
Initial speed	174	(Km/h)
Final speed	85	(Km/h)
Stopping distance	132	(m)
Braking time	3.8	(sec)
Maximum deceleration	0.8	(g)
Max force on lever	2.6	(Kg)

15		
Initial speed	309	(Km/h)
Final speed	67	(Km/h)
Stopping distance	278	(m)
Braking time	5.9	(sec)
Maximum deceleration	1.5	(g)
Max force on lever	5.2	(Kg)