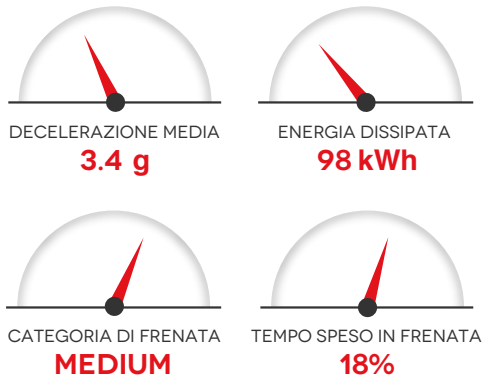


F1 | BRAKE CIRCUIT IDENTITY CARDS

2016 FORMULA 1 PIRELLI
CHINESE GRAND PRIX

15-17 APR 2016

SHANGHAI INTERNATIONAL CIRCUIT (SHANGHAI)



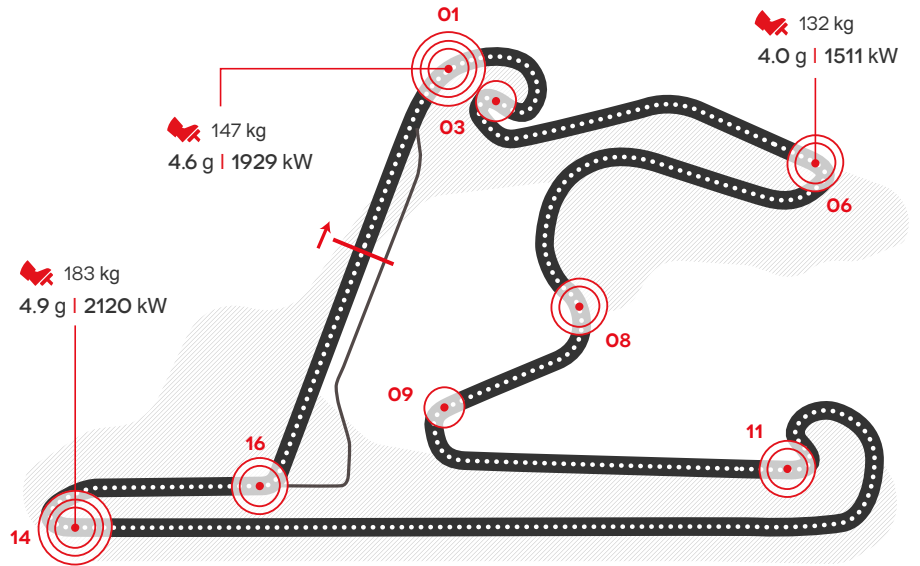
CIRCUIT DATA

Length: 5,451 m
Number of laps: 56
Number of brake zones/lap: 8

COMMENT

Despite the 14 turns, at the end of the straight stretch, is the one that subjects the drivers and cars to a violent deceleration of more than 4 Gs, the circuit is not very critical for brakes on the whole since the cars are normally quite aerodynamically charged. In fact, aerodynamic resistance contributes to the deceleration of the single-seaters, helping the braking action. However, the remaining braking sections are relatively light and free of any particular difficulties for braking systems.

*** Turn 14 is considered the most demanding for the braking system.**



01

Initial speed	320	(Km/h)
Final speed	158	(Km/h)
Stopping distance	84	(m)
Braking time	0.96	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	147	(Kg)
Braking power	1929	(Kw)

03

Initial speed	122	(Km/h)
Final speed	79	(Km/h)
Stopping distance	20	(m)
Braking time	0.76	(sec)
Maximum deceleration	1.3	(g)
Maximum pedal load	44	(Kg)
Braking power	68	(Kw)

06

Initial speed	292	(Km/h)
Final speed	70	(Km/h)
Stopping distance	132	(m)
Braking time	1.50	(sec)
Maximum deceleration	4.0	(g)
Maximum pedal load	132	(Kg)
Braking power	1511	(Kw)

08

Initial speed	251	(Km/h)
Final speed	155	(Km/h)
Stopping distance	69	(m)
Braking time	0.92	(sec)
Maximum deceleration	3.1	(g)
Maximum pedal load	104	(Kg)
Braking power	996	(Kw)

09

Initial speed	189	(Km/h)
Final speed	99	(Km/h)
Stopping distance	72	(m)
Braking time	1.04	(sec)
Maximum deceleration	2.1	(g)
Maximum pedal load	72	(Kg)
Braking power	424	(Kw)

11

Initial speed	285	(Km/h)
Final speed	77	(Km/h)
Stopping distance	131	(m)
Braking time	1.53	(sec)
Maximum deceleration	3.8	(g)
Maximum pedal load	128	(Kg)
Braking power	1419	(Kw)

14*

Initial speed	333	(Km/h)
Final speed	61	(Km/h)
Stopping distance	159	(m)
Braking time	1.74	(sec)
Maximum deceleration	4.9	(g)
Maximum pedal load	183	(Kg)
Braking power	2120	(Kw)

16

Initial speed	255	(Km/h)
Final speed	130	(Km/h)
Stopping distance	89	(m)
Braking time	1.10	(sec)
Maximum deceleration	3.2	(g)
Maximum pedal load	106	(Kg)
Braking power	1035	(Kw)