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National Standard of the People's Republic of China

GB/T 30196-2013

Self-supporting Run Flat Tyre

自体支撑型缺气保用轮胎

(ISO 16992:2010, Passenger Car Tyres — Spare Unit Substitutive Equipment (SUSE), MOD)

(English Translation)

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Self-supporting Run Flat Tyre

1 Scope

This standard specifies the terms and definitions, special symbols, specification marks, technical requirements, and test methods for endurance performance of self-supporting run flat tires.

This standard is applicable to the radial tires of new self-supporting air-defense passenger car.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 2978 *Size Designation, Dimensions, Inflation Pressure and Load Capacity for Passenger Car Tyres*

GB/T 4502 *Laboratory Test Methods for Passenger Car Tyres Capabilities* (GB/T 4502-2009, ISO 10191:1995, MOD)

GB/T 6326 *Tyre Terms and Definitions* (GB/T 6326-2005, ISO 42234223.1:2002, NEQ)

GB 9743 *Passenger Car Tyres*

HG/T 2177 *Appearance Quality of Tyres*

3 Terms and Definitions

For the purpose of this document, the terms and definitions given in GB/T 6326 and the following apply.

3.1
self-supporting run flat tyre
technical solution allowing the pneumatic tyre, mounted on the appropriate wheel and in the absence of any supplementary component, to supply the vehicle with the basic tyre functions at a specified speed and distance when operating in flat tyre running mode
Note: An example of a technical solution is reinforced sidewalls.

3.2
inflate mode
normal working state of a pneumatic tyre, inflated at the cold inflation pressure recommended by the vehicle manufacturer or the tyre manufacturer for the intended

service

3.3
loss of tyre functional efficiency
pressure loss of the tyre/wheel assembly which results in operation in flat tyre running mode and which could be rapid, slow or uncontrolled, leading to a reduction of basic tyre function

3.4
flat tyre running mode
state of a tyre, while operating at an inflation pressure between 0 kPa and 70 kPa

3.5
basic tyre function
normal capability of an inflated tyre to support a given load up to a given speed, and to transmit the driving, the steering and the braking forces to the ground on which it runs

4 Special Symbol

The symbol shall only be applied to the self-supporting run flat tyres when the extended mobility system successfully completes the test procedure and quality specifications as specified in Clause 7. The example of special symbol as shown in Figure 1.