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NATIONAL STANDARD OF THE
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GB/T 22391-2017

Replacing GB/T 22391-2008

Test method of endurance for solid tyres - Drum method

实心轮胎耐久性能试验方法 转鼓法

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Table of Contents

Foreword	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Test equipment and accuracy	5
5 Test conditions	6
6 Test steps	7
7 Test report	8

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 22391-2008, *Test method of endurance for solid tyres - Drum method*; compared with GB/T 22391-2008, the main technical changes are as follow:

- Remove the “judgment rules” from the scope (see Chapter 1);
- Add the requirements for the diameter of the probe of the temperature measuring instrument (see 4.3; 4.3 of the 2008 edition);
- Modify the requirements for the accuracy of the drum speed of the testing machine (see 4.4; 4.4 of the 2008 edition);
- Add the requirements for the position of the ambient temperature measuring device (see 4.7);
- Modify the requirements for the number and position of thermometer holes (see 5.2; 5.2 of the 2008 edition);
- Add a schematic diagram of punching requirements for the thermometer holes (see 5.2);
- Add drum acceleration time limit (see 5.4);
- Delete the provision of “adjust at least 8 h under the standard laboratory environment specified in GB/T 2941” (5.3 of the 2008 edition);
- Adjust the test procedure (see 6.4; 6.4 of the 2008 edition);
- Change the temperature measurement time from “within 1 min after the end of the running interval” to “within 1 minute after the drum stops at the end of each test stage” (see 6.5);
- Delete the judgment rules and the conclusion part of the test report (Chapter 7 and Chapter 8 of the 2008 edition).

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Tyres and Rims of Standardization Administration of China (SAC/TC 19).

Drafting organizations of this Standard: Zhongce Rubber Group Co., Ltd., Xiamen Zhengxin Rubber Industry Co., Ltd., Xuzhou Xulun Rubber Co., Ltd., Guizhou Tyre Co., Ltd., Shandong Linglong Tyre Co., Ltd., Beijing Research and Design Institute of

Test method of endurance for solid tyres - Drum method

1 Scope

This Standard specifies the terms and definitions, test equipment and accuracy, test conditions, test procedures and test reports for the test of endurance for solid tyres.

This Standard applies to new solid tyres.

2 Normative references

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

GB/T 6326, Tyre terms and definitions

GB/T 10823, Size designation dimensions and load capacity of solid tyres for pneumatic tyres rims

GB/T 16622, Size designation, dimensions and load capacity for pressed-on solid tyres

3 Terms and definitions

Terms and definitions determined by GB/T 6326 are applicable to this document.

4 Test equipment and accuracy

4.1 The outer diameter of the test drum is $1\,700\text{ mm} \pm 17\text{ mm}$.

4.2 The test surface of the test drum shall be a smooth steel surface, and the surface width shall be greater than or equal to the total section width of the test tyre.

4.3 The temperature measuring instrument shall be a needle thermometer with digital display, the accuracy of the thermometer shall be $\pm 0.1\text{ }^{\circ}\text{C}$, and the diameter of the probe shall be $1\text{ mm} \sim 3\text{ mm}$ smaller than the thermometer hole.

4.4 The speed of the drum of the testing machine shall meet the test requirements, and its speed accuracy shall be $\pm 0.2\text{ km/h}$.

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