



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13203-2021

Test methods for verifying capabilities of motorcycle tyres

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Foreword

This document was drafted in accordance with the requirements of GB/T 1.1-

2020 "Directives for standardization - Part 1. Rules for the structure and drafting

of standardizing documents".

This document replaces GB/T 13203-2014 "Test methods for verifying capabilities of motorcycles tyres". Compared with GB/T 13203-2014, the main technical changes are as follows.

- ADD and IMPROVE the high-speed test condition parameters of motorcycle tyres, which have a maximum speed of more than 240 km/h (see Table 2 and Table 3; Table 2 and Table 3 of the 2014 edition). Correspondingly ADD the instructions for setting conditions for high-speed performance tests for tyres, which have marked or designated speed grades, by the tyre manufacturer, in this type of tyre (see Appendix E.2; Appendix E.2 of the

2014 edition);

- ADD the test condition parameters of the speed grade code K, in the applicable scope of the high-speed performance test method (see Table 4;

Table 4 of the 2014 Edition).

This document uses the redrafting method, to modify and adopt ISO

10231.2003 "Motorcycle tyres - Test methods for verifying tyre capabilities".

Compared with ISO 10231.2003, this document has many adjustments in structure. Appendix A lists the comparison of the article number, between this document and ISO 10231.2003.

Compared with ISO 10231.2003, there are technical differences between this document. The terms of these differences have been marked by a vertical single line (|), on the outer margin of the document. Appendix B gives a list of the corresponding technical differences and their reasons.

This document has also made the following editorial changes.

- CHANGE the standard name to "Test methods for verifying capabilities of motorcycles tyres";
- MODIFY the description of the content of the test steps in E.1;
- DELETE the references of ISO 10231.2003.

2002 "Test method of high speed performance for motorcycle tyres - Drum

method" has been released as follows. GB/T 13204-1991), GB/T 13205-

1991 "Endurance test for motorcycle tyres (Drum method)";

- GB/T 13203-2014;
- This is the third revision.

Test methods for verifying capabilities of motorcycles
tyres

1 Scope

This document specifies terms and definitions, test equipment and accuracy, test methods, judgment rules and test reports, for the performance test of motorcycles tyres. This document includes the strength performance test

method, durability test method, high speed performance test method, centrifugal swelling test method, of motorcycle tyres.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB 518 Motorcycle tyres

GB/T 2983 Series of motorcycle tyres

3 Terms and definitions

The terms and definitions, as defined in GB/T 6326, as well as the following terms and definitions, apply to this document.

The maximum load rating of the tyre, at the highest speed.

4 Test equipment and accuracy

For the tyre centrifugal swelling test, when measuring the vertical part of the inner flange of the rim, directly above the bead seat and the bead seat fillet, THEN, the test shaft and rim shall be controlled, to ensure that the radial deviation is less than ± 0.5 mm AND the lateral deviation is less than ± 0.5 mm.

5 Test method

Start the combination to accelerate uninterruptedly; it shall be able to reach the maximum speed capability of the tyre, within 5 minutes.

The rotation of the tyre can EITHER be driven by a motor, which acts on the test shaft, OR driven by pressing the tyre on the test drum (see 4.1).

6 Judgment rules

When the tyre is running at maximum speed, its profile shall not exceed the

closed curve, which is defined in Figure C.1, as relative to the tyre axis (that is, the XX and YY axes of the curve shall coincide with the axis of the plotted tyre profile).

7 Test report

The test report shall include at least the following.

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