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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 2983-2015

Replacing GB/T 2983-2008

Series of motorcycle tyres

摩托车轮胎系列

[ISO 4249-1:1985, Motorcycle tyres and rims (code-designated series) - Part 1: Tyre; ISO 4249-2:1990, Motorcycle tyres and rims (code-designated series) - Part 2: Tyre load ratings; ISO 4249-3:2010, Motorcycle tyres and rims (code-designated series) - Part 3: Rims; ISO 5751-1:2010, Motorcycle tyres and rims (metric series) - Part 1: Design guides; ISO 5751-2:2010, Motorcycle tyres and rims (metric series) - Part 2: Tyre dimensions and load-carrying capacities; ISO 5751-3:2010, Motorcycle tyres and rims (metric series) - Part 3: Range of approved rim contours; ISO 5995-1:1982, Moped tyres and rims - Part 1: Tyres; ISO 6054-1:1994, Motorcycle tyres and rims (code-designated series) - Diameter codes 4 to 12 - Part 1: Tyres, NEQ]

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Foreword

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

This Standard replaces GB/T 2983-2008 "Series of motorcycle tyres". Compared with GB/T 2983-2008, the main technical changes are as follows:

- ADD the definitions of centrifugal radius and rolling radius (see 3.1 and 3.2);
- Delete the provision that the small-diameter tyres for code-designated series motorcycle tyres are not suitable for off-road operations, such as transportation (see 4.1 of the 2008 edition);
- Delete the provision that the maximum speed of small-diameter tyres for metric series motorcycle tyres is 120 km/h (see 4.2 of the 2008 edition);
- ADD the additional mark indication method for the load index and speed symbol of the moped tyres; ADD the load index value of each specification (see 5.3 and Table 10, Table 11);
- ADD centrifugal radius and rolling radius as use reference dimensions (see 6.5 and Appendix C);
- ADD a total of 5 new specifications, 3.60-18, 4.60-17, 2.75-8, 3.75-12, and 5.00-12, to the motorcycle tyres of code-designated series; ADD 5 reinforced and 4 heavy-duty varieties to the previous specifications (see Table 1 and Table 2);
- For the last sentence of the footnote "a" for the new tyre design section width in specification parameter tables of the metric series motorcycle tyres, modify it to "For tyres with a tread that is wider than its section width, the total tread width is designated as the section width. And it shall not be less than its minimum design section width value." So that it is applicable to tread profiles other than Type A; and also applicable to the code-designated series (see Table 1, Table 2, Table 5, Table 6, and Table 7; Table 5, Table 6, and Table 7 of the 2008 edition);
- Modify the outer diameter design and manufacturing tolerance factor of the footnote "b" in specification parameter tables for the motorcycle tyres of code-designated series and metric series; ADD the selected values of tolerance factor for different tread patterns (see Table 1, Table 2, Table 5~Table 7; Table 1, Table 2, Table 5~Table 7 of the 2008 edition);
- ADD the value regulation of "taking the integer value according to GB/T 8170" when calculating the tyre dimension tolerance, to the footnotes of all tyre specification parameter tables (see Table 1, Table 2, Table 5, Table 6,

Series of motorcycle tyres

1 Scope

This Standard specifies the terms and definitions, classification, indication method of specification mark and its additional mark, specifications, dimensions, pressure, load, and rims of motorcycle tyres.

This Standard applies to new pneumatic tyres for motorcycles.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB 518 Motorcycle tyres

GB/T 6326 Tyre terms and definitions (GB/T 6326-2014, ISO 4223-1:2002)

GB/T 8170 Rules of rounding off for numerical values and expression and judgement of limiting values

GB/T 13202 Series of motorcycle rims (GB/T 13202-2015, ISO 4249-3:2010, ISO 5995-2:1988, ISO 6054-2:1990)

3 Terms and definitions

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

3.1

Centrifugal radius

The allowable maximum dynamic radius of tyre expansion under the action of centrifugal force when the high-speed motorcycle tyre is running at its highest speed capability. The centrifugal radius is related to the maximum speed of the vehicle. Together with the maximum use peripheral dimension, it is used as a reference when designing the tyre clearance of the corresponding high-speed motorcycle.

3.2

Rolling radius

The rolling circumference of motorcycle tyres divided by 2π is the rolling radius. It is used as a reference for tyre selection or vehicle design and adjustment.

Note: The distance covered by a tyre rolling a full circle under specified conditions is the rolling circumference.

4 Classification

4.1 Motorcycle tyres of code-designated series

This series of tyres are suitable for rims with a nominal rim diameter of 4~21.

Tyres with a nominal rim diameter greater than or equal to 14 shall use cylindrical bead seat rims (WM type) or 5° inclined-bottom bead seat rims (MT type).

Tyres with a nominal rim diameter less than or equal to 12 shall use divided rims (DT type), or drop center rims (DC type), or 5° inclined-bottom bead seat rims (MT type). The maximum running speed is 100 km/h.

4.2 Motorcycle tyres of metric series

This series stipulates metric series motorcycle tyres with nominal tyre aspect ratios of 30, 35, 40, 50, 55, 60, 65, 70, 75, 80, 90, 100. They are suitable for cylindrical bead seat rims (WM type) or 5° inclined-bottom bead seat rims (MT type) with nominal rim diameters of 8~24.

4.3 Moped tyres

This series of tyres are suitable for two-wheeled or three-wheeled mopeds, with a maximum speed of not more than 50 km/h and an engine working capacity of not more than 50 mL.

This series of tyres are suitable for divided rims (DT type) and drop center rims (DC type) with nominal rim diameters of 8~12; inclined-bottom straight-side rims and cylindrical bead seat rims (WM type) with nominal rim diameters of 14~22.

5 Indication method of specification mark and its additional mark

5.1 Motorcycle tyres of code-designated series

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