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Technical specification of agricultural tires

农业轮胎技术条件

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Technical specification of agricultural tires

1 Scope

This standard specifies the terms and definitions, requirements, test methods, marking and packaging of agricultural tyres.

This standard applies to new pneumatic tyres (including covers and flaps) for agricultural and forestry tractors and machinery.

2 Normative references

The following documents are essential to the application of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB/T 519 Test methods for measuring physical properties of pneumatic tyres

GB/T 521 Test methods for measuring peripheral dimensions of tyres

GB/T 528 Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties

GB/T 531 Rubber, vulcanized or thermoplastic - Determination of indentation hardness

GB/T 532 Rubber, vulcanized or thermoplastic - Determination of adhesion to textile fabric

GB/T 1689 Rubber vulcanized - Determination of abrasion resistance (Akron machine)

GB/T 2979 Size designation, dimensions, inflation pressure and load capacity for agricultural tyres

GB/T 6326 Tyre terms and definitions

GB/T 14828 Test method for measuring traction performance of agricultural tyres

GB/T 34823 Endurance test method for agricultural tyres

HG/T 2177 Appearance quality of tyres

inner liner, breaker, bead) separation, ply cracking, cords separation, cords break, chunking, open splice, chap, carcass abnormal deformation and other defects checked out in the appearance inspection.

5 Test methods

5.1 The overall diameter and section width of the tyre after inflation shall be measured according to GB/T 521.

5.2 The tensile strength and elongation at break of the tyre cover tread rubber shall be sampled according to the provisions of GB/T 519, and tested with a type 2 cutter according to GB/T 528.

5.3 The hardness of the tyre cover tread rubber shall be measured according to GB/T 531.

5.4 The wear volume of the tyre cover tread rubber shall be sampled according to GB/T 519 and tested according to GB/T 1689.

5.5 The adhesive strength of each component of the tyre cover shall be sampled according to GB/T 519, and tested according to GB/T 532.

5.6 Tyres can be tested for traction performance according to GB/T 14828.

5.7 Tires can be tested for wear performance according to HG/T 2444.

5.8 Agricultural radial tyres shall be tested for endurance according to GB/T 34823.

6 Marking and packaging

6.1 Marking

6.1.1 There shall be marks of items a) ~ h) on the sidewall of each tyre cover; if it is a tubeless tyre, it shall also have the mark of item i); each flap shall have the marks of item a), b), and g):

- a) size designation;
- b) trademark, manufacturer's name, or place of origin;
- c) speed symbol or maximum speed, inflation pressure, ply rating, or load index or load capacity;
- d) tyre driving direction mark (the tread pattern of the tyre cover has the driving direction);

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