

ICS 83.160.30
CCS G 41



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

GB/T 30194-2026

Replacing GB/T 30194-2013

**Test methods of measuring rolling circumference for
agricultural tyres**

农业轮胎滚动周长试验方法

(English Translation)

Issued on: January 28, 2026

Implemented on: August 1, 2026

Issued by: State Administration for Market Regulation

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 30194-2013 "Test Method for Rolling Circumference of Agricultural Tires". Compared with GB/T 30194-2013, except for the following.

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The definition of "tire rolling circumference" has been removed, and the definition of "baseline speed" has been added (see 3.1, 2013 version 3.1);

---Added the drum method for measuring rolling circumference (see Chapter 4);

---The included items in the vehicle law test report have been changed (see 5.5, Chapter 8 of the 2013 edition);

---Other experimental conditions have been removed (see Chapter 9 of the 2013 edition);

---The accuracy and positioning requirements for the test apparatus have been increased (see Appendix C).

This document is modified to adopt ISO 11795:2018 "Rolling circumference index (RCI) and speed radius index of tires for agricultural tractors drive wheels".

Explanation of (SRI) and rolling circumference test method.

Compared with ISO 11795:2018, this document has undergone many structural adjustments. A table comparing the changes in structural numbering between the two documents is provided.

See Appendix A.

This document differs significantly from ISO 11795:2018 in several technical aspects. The relevant clauses are indicated in vertical margins.

The straight lines (|) are marked. A summary of these technical differences and their reasons can be found in Appendix B.

The following editorial changes have been made to this document.

---Incorporates the revisions to ISO 11795:2018/Amd1.2022;

---To align with existing standards, the standard name has been changed to "Test Method for Rolling Circumference of Agricultural Tires";

---Appendix A (Informative) has been added, showing the comparison of this document's structural numbering with ISO 11795:2018;

---Appendix B (Informative) has been added, outlining the technical differences between this document and ISO 11795:2018 and the reasons for these differences.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Tires and Rim (SAC/TC19).

1 Scope

This document describes a test method for measuring the rolling circumference of agricultural tractor and machinery tires under load conditions.

This document applies to new agricultural drive wheel tires with either a bias-ply or radial configuration.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 521 Method for measuring the outer dimensions of tires GB/T 2979 Specifications, dimensions, tire pressure and load of agricultural tires GB/T 3372 Series of rims for tractors and agricultural and forestry machinery GB/T 6326 Tire Terminology

3 Terms and Definitions

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

reference speed

Given test speed.

Note: This is related to the output rolling circumference value.

4.1 Principle

The test tire and test rim assembly (wheel) is mounted on the driven axle and pressed vertically onto a drive drum of a specified diameter, with a negative pressure applied.

Load. At a reference speed, record the number of rotations of the tire and the drum, and substitute these data into the formula to calculate the tire's rolling circumference.

4.2.1 Drum Diameter

The diameter of the testing machine drum should be at least 1700 mm, with a diameter tolerance of $\pm 1\%$. The tire is pressed vertically onto the drive drum of the specified diameter.

Apply a load to it.

4.2.2 Drum Surface

The surface of the test drum should be a smooth steel surface. If a textured drum is used, this should be stated in the test report.