
Tyres for agricultural tractors and machines — Code-designated and service-description marked radial drive-wheel tyres

Pneumatiques pour tracteurs et machines agricoles — Pneumatiques radiaux pour roues motrices portant une désignation de dimension par code et une description d'utilisation





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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Tyre marking	2
4.1 General.....	2
4.2 Supplementary service description.....	2
4.3 Additional information.....	2
4.4 Tyre classification and nomenclature.....	3
4.5 Tyre maximum pressure for bead seating pictogram.....	3
5 Tyre dimensions	3
6 Tyre load ratings	3
7 Tyre applications other than at reference speed	4
7.1 General.....	4
7.2 Field applications with high and sustained torque.....	4
7.3 Tyres marked with additional service description.....	4
8 Tyre application on combine harvesters	5
9 Tyre parameters for vehicle speed reference	5
Annex A (normative) Tyre size designations, measurement rims and tyre dimensions	6
Annex B (normative) Load index and basic tyre load with reference inflation pressures 120 kPa, 160 kPa, 210 kPa and 250 kPa	8
Annex C (normative) Approved rim contours	10
Annex D (normative) Rolling circumference (RC), rolling circumference index (RCI) and speed radius index (SRI)	12
Bibliography	14

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 5, *Agricultural tyres and rims*.

This third edition cancels and replaces the second edition (ISO 8664:2005), which has been technically revised. It also incorporates the Amendment ISO 8664:2005/Amd1:2010. The main changes compared to the previous edition are as follows:

- information already contained in other International standards has been removed and replaced with normative references to these standards;
- A6 speed symbol for radial code designated tyres has been deleted;
- the document has been aligned with other standards developed by SC 5 and with existing regulations;
- the values of SRI have been updated to the most recent data as given by ETRTO;
- approved rim contours have been added (Table C.1).

Tyres for agricultural tractors and machines — Code-designated and service-description marked radial drive-wheel tyres

1 Scope

This document specifies the marking, dimensions, load ratings and reference speeds for code-designated agricultural tractor drive-wheel tyres with service description (load index and speed symbol).

It applies to tyres of radial construction in the speed categories 40 km/h (speed symbol A8), and 50 km/h (speed symbol B).

NOTE Code designated series of:

- diagonal (ply rating marked) tyres for agricultural tractors and machines are specified in ISO 4251-1 and ISO 4251-2;
- tyres for logging and forestry machines are specified in ISO 18807¹⁾;
- tyres for construction/industrial tractors are specified in ISO 13442.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4223-1, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

cyclic loading

gradual increase of payload to maximum allowable load with unloading before off-field transport

3.2

basic tyre load

tyre load-carrying capacity indicated by the tyre's load index at the reference speed indicated by the tyre's speed symbol

Note 1 to entry: When used as dual tyres, the load per tyre shall be reduced to 88 % of the single tyre load.

1) To be published.

3.3

high and sustained torque

condition that occurs when high continuous tractive effort is applied to the drawbar or hitch

Note 1 to entry: Vehicles equipped with injectors or any other ground engaging attachment (e.g. ploughing) or dragging objects are considered to be operating in a high and sustained torque mode. Vehicles pulling carts or trailers are also considered to be operating in a high torque mode when operating on slopes greater than 11° (20 %) lateral slope.

4 Tyre marking

4.1 General

The tyre marking shall consist of the designation of the dimensional and constructional characteristics (tyre size designation), the service description (load index and speed symbol) and any other additional markings (see example in [Figure 1](#)).

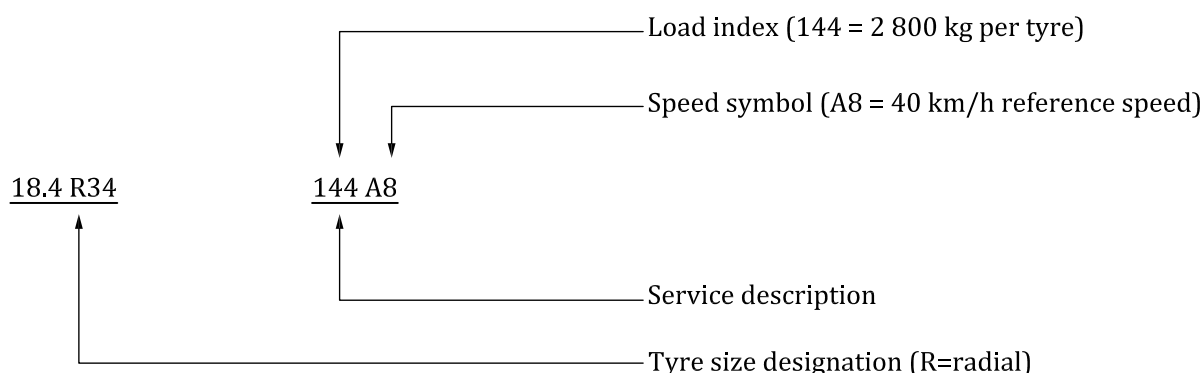


Figure 1 — Example of tyre marking

4.2 Supplementary service description

Tyres may also be marked with an additional service description, indicated within a circle, to identify a special type of service (load rating and speed category) for which the tyre size is also allowed in addition to the applicable load variation with speed (see example in [Figure 2](#)).

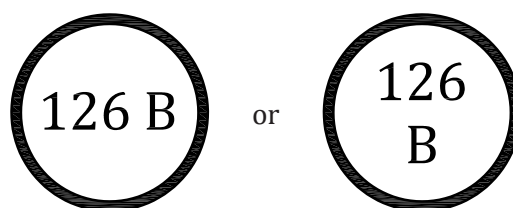


Figure 2 — Example of additional service description

Load variations of [Table 1](#) are not applicable to the supplementary service description. See examples of load ratings in [7.3](#).

4.3 Additional information

4.3.1 In the case of tubeless tyres, the marking “**TUBELESS**” shall be shown on the tyre.