
International Standard



1005/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Railway rolling stock material —
Part 1 : Rough-rolled tyres for tractive and trailing stock
— Quality requirements**

*Matériel roulant de chemin de fer — Partie 1 : Bandages bruts laminés pour matériel moteur et pour matériel remorqué —
Prescriptions de qualité*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 1005/1 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in November 1980.

It has been approved by the member bodies of the following countries :

Austria	Irak	Spain
Bulgaria	Italy	Sweden
Canada	Japan	Switzerland
China	Korea, Dem. P. Rep. of	Turkey
Czechoslovakia	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Netherlands	USA
Finland	New Zealand	USSR
Germany, F.R.	Poland	Venezuela
Hungary	Romania	
Iran	South Africa, Rep. of	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia
Belgium
France
India

This International Standard cancels and replaces ISO Recommendation R 1005/1-1969, of which it constitutes a technical revision.

Railway rolling stock material — Part 1 : Rough-rolled tyres for tractive and trailing stock — Quality requirements

1 Scope and field of application

1.1 This part of ISO 1005 specifies requirements for the manufacture and supply of rough-rolled tyres for tractive and trailing stock of unalloyed steels in accordance with table 1 and clause 4.

NOTE — Another International Standard for rough-rolled tyres is in preparation (see table 1, note 7).

1.2 In addition to this part of ISO 1005, the requirements of ISO 404 are applicable.

2 References

ISO 82, *Steel — Tensile testing*.

ISO 83, *Steel — Charpy impact test (U-notch)*.

ISO/R 377, *Selection and preparation of samples and test pieces for wrought steel*.¹⁾

ISO 404, *Steel and steel products — General technical delivery requirements*.

ISO/R 1005/2, *Railway rolling stock material — Part 2 : Rough tyres for trailer stock — Dimensions and tolerances*.¹⁾

ISO 5498, *Railway rolling stock material — Ultrasonic acceptance testing*.

ISO 6506, *Metallic materials — Hardness test — Brinell test*.

NOTE — Pending publication of these revisions as International Standards, it will be necessary for the relevant requirements to be agreed by the purchaser and the manufacturer.

3 Information to be supplied by the purchaser

The purchaser shall supply the following information in his enquiry and order :

- a) the number of this International Standard;

- b) the grade of steel (see 4.1 and table 1);
- c) the type of heat treatment (see 4.2 and 6.5);
- d) the dimensions of the tyre (see 5.4);
- e) if microstructure examination is required (see 5.2.2.1 and table 2);
- f) whether the chemical composition may be verified by cast analysis (see 5.1);
- g) if macroscopic and macrographic tests are required (see 5.2.2.2, 5.2.2.3 and table 2);
- h) if special ultrasonic examination is required (see 5.2.2.4 and table 2);
- j) if a restricted Brinell hardness range is required (see 5.2.3 and table 2);
- k) if any special marking is required (see 5.5);
- m) if a special production process is required (see clause 6);
- n) if special inspection is required (see clause 7);
- p) if a falling weight or impact test is required (see table 2, note 7);
- q) if special preparation and sampling of test pieces is required (see 7.7.2 and 7.7.3.1);
- r) if any protection against corrosion is required (see clause 8);
- s) if the conditions of guarantee are to be agreed (see clause 9).

4 Classification

The tyres shall be specified in the order or its appended documents according to the grade of steel used, the heat-treatment condition of delivery and any optional tests or inspection required (see table 2, column 4).

1) Under revision.