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International Standard



1005/4

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

Railway rolling stock material — Part 4 : Rolled or forged wheel centres for tyred wheels for tractive and trailing stock — Quality requirements

Matériel roulant de chemin de fer — Partie 4 : Corps de roues laminés ou forgés pour roues bandagées pour matériel moteur et matériel remorqué — Prescriptions de qualité

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1005/4 was prepared by Technical Committee ISO/TC 17, *Steel*.

It cancels and replaces ISO Recommendation R 1005/4-1969, of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Railway rolling stock material — Part 4 : Rolled or forged wheel centres for tyred wheels 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 rolled or forged wheel centres for tractive and trailing stock, which are suitable for tyring and are made of unalloyed steels in accordance with table 1 and clause 4. Spoked wheel centres are not covered by this part of ISO 1005.

1.2 The quality requirements for tyres are given in ISO 1005/1 and the quality requirements for forged and rolled wheel centres are given in this part of ISO 1005. Quality requirements for cast wheel centres, if required, shall be subject to agreement between purchaser and manufacturer.

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

2 References

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

ISO 377, *Selection and preparation of samples and test pieces for wrought steel*.

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

ISO 1005, *Railway rolling stock material*

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

— *Part 2 : Tyres, wheel centres and tyred wheels for tractive and trailing stock — Dimensional, balancing and assembly requirements*.

ISO 6892, *Metallic materials — Tensile testing*.

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 part of ISO 1005;
- 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 degree of finish (see 4.3);
- e) if a check analysis is required (see 5.1.2);
- f) the dimensions of the wheel centre (see 5.4);
- g) whether, in the case of finished wheel centres, the position and amount of residual static unbalance shall be marked (see 5.2.3);
- h) if any special marking is required (see 5.5);
- j) the conditions for machining and the elimination of unbalance (see 6.6);
- k) the type of inspection required (see clause 7);
- m) if special preparation and sampling of test pieces is required (see 7.7.2 and 7.7.3);
- n) the methods of protection against corrosion and mechanical damage (see 8.1 and 8.2);
- p) if the conditions of guarantee are to be agreed (see clause 9).

4 Classification

The wheel centres shall be specified in the order or its appended documents according to the grade of steel, the heat-treatment condition of delivery, the degree of finish and the type of inspection required.

4.1 Steel grades

This part of ISO 1005 covers steel grades C1, C2 and C3 having the characteristics given in table 1.