

This is a preview of "ISO 1005-7:1982". Click here to purchase the full version from the ANSI store.

International Standard 1005/7

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

Railway rolling stock material — Part 7 : Wheelsets for tractive and trailing stock — Quality requirements

*Matériel roulant de chemin de fer — Partie 7 : Essieux montés pour le matériel moteur et pour le matériel remorqué —
Prescriptions de qualité*

First edition — 1982-11-15

UDC 629.4.027.44

Ref. No. ISO 1005/7-1982 (E)

Descriptors : steel products, rolled products, railroad equipment, wheels, set of wheels, specifications, delivery conditions, manufacturing, tests, acceptance inspection, dimensions, dimensional tolerances, quality control.

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 1005/7 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in May 1981.

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

Austria	Italy	Sweden
Belgium	Japan	Switzerland
China	Korea, Dem. P. Rep. of	Tanzania
Czechoslovakia	Korea, Rep. of	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Germany, F.R.	Poland	USSR
Hungary	Romania	Venezuela
Iran	South Africa, Rep. of	
Israel	Spain	

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

Canada
France
USA

Railway rolling stock material — Part 7 : Wheelsets for tractive and trailing stock — Quality requirements

1 Scope and field of application

1.1 This part of ISO 1005 specifies the requirements for the assembly by press fitting or shrink fitting onto axles of solid wheels, wheel centres, wheel centres complete with tyres, axle-mounted brake discs, dynamo pulleys, gear wheels, chain wheels and any other components specified by the purchaser¹⁾ into complete wheelsets.²⁾

It also specifies the dimensions and tolerances of the completed assembly and the conditions of inspection and supply.

NOTE — In many cases, the operations by which the components are made ready for assembly, such as the final machining operations of the wheel seats of the axles and of the bores of the wheels and the mounting of the tyres on the wheel centres, are carried out by the wheelset manufacturer and are consequently to be regarded as a part of the manufacture of the wheelset. However, the specifications for these operations and for the condition "ready for assembly" of the different components are, for the sake of clarity, covered in greater detail in the relevant International Standards.

1.2 This part of ISO 1005 includes requirements for both tractive and trailing wheel sets for all railway applications and applies to wheelsets of the following types of wheelset components :

Type of axle :

Outside or inside journal bearings
Cylindrical (or conical)³⁾ wheel seats
Plain-axle body or with seats for gear wheels, traction motor suspension, dynamo pulleys, chain wheels, brake discs or any other axle-mounted component

Type of wheel :

Solid — rolled, forged or cast
Tyred with rolled, forged (or cast)³⁾ disc wheel centres, or with (cast) spoked-wheel centres³⁾

Type of axle box bearing :

Plain or roller

Type of traction motor (or final drive) bearing :

Plain or roller

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

2 References

ISO/R 286, *ISO system of limits and fits — Part 1 : General, tolerances and deviations.*

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

ISO 1005/1, *Railway rolling stock material — Part 1 : Rough-rolled tyres for tractive and trailing stock — Quality requirements.*

ISO 1005/2, *Railway rolling stock material — Part 2 : Rough tyres for trailing stock — Dimensions and tolerances.*⁴⁾

ISO 1005/3, *Railway rolling stock material — Part 3 : Axles for tractive and trailing stock — Quality requirements.*

ISO 1005/4, *Railway rolling stock material — Part 4 : Rolled or forged wheel centres for tyred wheels for trailer stock.*⁵⁾

ISO 1005/6, *Railway rolling stock material — Part 6 : Solid wheels for tractive and trailing stock — Quality requirements.*

1) Here and throughout the text of this part of ISO 1005, the "Purchaser" is understood to mean the "Railway Administration or its nominated representative".

2) For the purposes of this document, a wheelset is defined as the complete unit constituted by the assembly of an axle and two complete wheels together with any gear-wheels, dynamo pulleys, brake discs or bearings, etc., which may be specified by the purchaser.

3) Wheelsets with the characteristics given in brackets are rare. If such wheelsets are ordered, deviations from or additions to the requirements of this part of ISO 1005 may be necessary. Such deviations and additions should be given in the order or its appended documents.

4) At present at the stage of draft. (Revision of ISO/R 1005/2-1969).

5) At present at the stage of draft. (Revision of ISO/R 1005/4-1969.)