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Carbon steel tyres for railway rolling stock—Wheel centres and tyred wheels—Dimensional, balancing and assembly requirements

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry and Minister of Transportation through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

This Standard, for the purpose of conformity to International Standard, has been prepared based on ISO 1005-2: 1994 Railway rolling stock material—Part 2: Tyres, wheel centres and tyred wheels for tractive and trailing stock—Dimensional, balancing and assembly requirements. Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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Contents

		Page
Introduction		1
1	Scope	1
2	Normative references	1
3	Designated items by purchaser	2
4	Definition of terms for degree of finish	3
5	Requirements	5
6	Inspection	10
7	Delivery	12
8	Guarantee	12
Anney A (informative)		

Carbon steel tyres for railway rolling stock—Wheel centres and tyred wheels—Dimensional, balancing and assembly requirements

Introduction This Japanese Industrial Standard fully employs ISO 1005-2: 1994, Railway rolling stock material—Part 2: Tyres, wheel centres and tyred wheels for tractive and trailing stock—Dimensional, balancing and assembly requirements, as well as, in a necessary and minimum range of full and wide revision of JIS E 5401: 1989 Carbon steel tyres for railway rolling stock, the provisions of the former Japanese Industrial Standard have been appended in addition.

In the former **JIS E 5401**: 1989, the quality requirements and the requirements of shapes and dimensions have been arranged into one standard, since the corresponding International Standards have been divided into two standards of **ISO 1005-1**: 1994, Railway rolling stock material—Part 1: Rough-rolled tyres for tractive and trailing stock—Technical delivery conditions and **ISO 1005-2**: 1994, in the results of proceeding of conformance on the basis of the style and system of International Standards, instead of the former **JIS E 5401**: 1989, **JIS E 5401-1** Carbon steel tyres for railway rolling stock—Quality requirements and **JIS E 5401-2** Carbon steel tyres for railway rolling stock—Wheel centres and tyred wheels—Dimensional, balancing and assembly requirements have been established.

At present, tyres are in the tendency to be used for repairing, solid wheels are used for new wheels.

1 Scope

- 1.1 In this Standard, the dimensional requirements 1), surface roughness and permissible residual unbalance relating to tyres, wheel centres and tyred wheels in the various degrees of finish are specified, and in addition the manufacturing requirements of tyred wheels. However, the tyred special wheels which have used rubber and the like (special structure wheels of sound isolation wheels, elastic wheels) shall be excluded.
 - Note 1) The term of "dimensional requirements" shall mean the machining allowance, dimensional tolerances, shapes and positional tolerances.
- 1.2 The quality requirements for the tyres shall be as given in **JIS E 5401-1**, and the quality requirements for the wheel centres shall be as given in **ISO 1005-4**.
- 1.3 In addition to the quality requirements of this Standards, ISO 404 apply.

2 Normative references

JIS E 4504 Wheel sets for railway rolling stock

JIS E 5401-1 Carbon steel tyres for railway rolling stock—Quality requirements

JIS E 5402-1 Carbon steel tyres for railway rolling stock—wheel centres and tyred wheels—Dimensional, balancing and assembly requirements