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**Rolling stock — Solid wheel — Part 1:
Quality requirements**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Association of Rolling Stock Industries (JARI)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS E 5402-1 : 2005** is replaced with this Standard.

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JIS E 5402 series consists of the following 2 parts under the general title *Rolling stock — Solid wheel*:

JIS E 5402-1 *Part 1: Quality requirements*

JIS E 5402-2 *Part 2: Dimensional and balancing requirements*

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Rolling stock — Solid wheel — Part 1: Quality requirements

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 1005-6** : 1994, Edition 2, with some modifications of the technical contents to align with the actual situation in Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

1.1 This Standard specifies requirements for the manufacture and supply of rolled, forged, or cast solid wheels (hereafter referred to as wheels) of unalloyed steels for rolling stock in accordance with Table 1, Table 1A, and Clause 4.

1.2 In addition to the requirements of this Standard, the requirements of **JIS G 0404** are applicable.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 1005-6 : 1994 *Railway rolling stock material — Part 6: Solid wheels for tractive and trailing stock — Technical delivery conditions* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent editions (including amendments) shall be applied.

JIS B 1101 *Slotted head screws*

JIS B 1181 *Hexagon nuts and hexagon thin nuts*

JIS E 5402-2 *Rolling stock — Solid wheel — Part 2: Dimensional and balancing requirements*

NOTE Corresponding International Standard: ISO 1005-8 : 1986 *Railway rolling stock material — Part 8: Solid wheels for tractive and trailing stock — Dimensional and balancing requirements* (MOD)