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(JEMA/JSA)

**Cold-rolled grain-oriented electrical steel
strip and sheet delivered in the fully-
processed state**

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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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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Electrical Manufacturers' Association (JEMA)/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 C 2553:2012** is replaced with this Standard.

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Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully-processed state

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 60404-8-7 : 2017**, Edition 4, with some modifications of the technical contents to correspond to the mainstream technique 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 JC. Annex JA and Annex JB are unique to **JIS** and not given in the corresponding International Standard.

1 Scope

This Standard defines the grades of cold-rolled grain-oriented electrical steel strip and sheet in nominal thicknesses of 0.23 mm, 0.27 mm, 0.30 mm and 0.35 mm, ~~having insulation coating on both surfaces~~. In particular, it gives general requirements, magnetic properties, geometrical characteristics and tolerances, technological characteristics, and inspection procedures.

This Standard applies to Goss textured grain-oriented electrical steel strip and sheet supplied in the final annealed condition in coils or sheets (hereafter referred to as steel strips), and intended for the construction of magnetic circuits.

This Standard covers the following three grades :

- conventional grades;
- high permeability grades;
- ~~— domain-refined grades.~~

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

IEC 60404-8-7 : 2017 *Magnetic materials — Part 8-7 : Specifications for individual materials — Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully-processed state* (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. The most recent editions of the standards (including amendments) indicated below shall be applied.