

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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**JIS C 2558** : 2021

(JEMA/JSA)

**Thin electrical steel strip and sheet for  
use at medium frequencies**

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ICS 29.030

Reference number : JIS C 2558 : 2021 (E)

C 2558 : 2021

Date of Establishment: 2015-05-10

Date of Revision: 2021-08-20

Date of Public Notice in Official Gazette: 2021-08-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for IEC area

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JIS C 2558 : 2021, First English edition published in 2022-09

Translated and published by: Japanese Standards Association  
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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In the event of any doubts arising as to the contents,  
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Printed in Japan

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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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS C 2558** : 2015), which has been technically revised.

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# Thin electrical steel strip and sheet for use at medium frequencies

## Introduction

This Japanese Industrial Standard has been prepared based on IEC 60404-8-8 : 2017, Edition 2, 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 thin non-oriented electrical steel strip and sheet in nominal thicknesses of 0.05 mm, 0.10 mm, 0.15 mm, 0.20 mm, 0.25 mm, 0.30 mm and 0.35 mm (hereafter referred to as the thin non-oriented electrical steel strips), and of thin grain-oriented electrical steel strip and sheet in nominal thicknesses of 0.05 mm, 0.10 mm, 0.15 mm and 0.18 mm (hereafter referred to as the thin grain-oriented electrical steel strips). It gives general requirements, magnetic properties, geometric characteristics and tolerances, technological characteristics, as well as inspection procedures.

NOTE 1 For the thin non-oriented electrical steel strips, other nominal thicknesses (i.e. 0.12 mm, 0.18 mm, 0.23 mm and 0.27 mm) may be upon the agreement between the manufacturer and the purchaser.

This Standard applies to the thin non-oriented electrical steel strips and the thin grain-oriented electrical steel strips (hereafter simply referred to as the steel strips) supplied in the fully annealed condition in coils and intended for the construction of magnetic circuits used at frequencies in the range from 100 Hz to 10 kHz.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60404-8-8 : 2017 *Magnetic materials — Part 8-8 : Specifications for individual materials — Thin electrical steel strip and sheet for use at medium frequencies* (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

Part or all of the provisions of the following standards, through reference in this text,