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medium frequencies**

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In the event of any doubts arising as to the contents,
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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment 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.

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Thin magnetic steel strip for use at medium frequencies

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **IEC 60404-8-8** published in 1991 with some modifications of the technical contents to correspond to the mainstream technique in Japan.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard defines the grades of thin non-oriented magnetic steel strip for use at medium frequencies in nominal thicknesses of 0.05 mm, 0.10 mm, 0.15 mm and 0.20 mm (hereafter referred to as “thin non-oriented magnetic steel strip”), and of thin oriented magnetic steel strip for use at medium frequencies in nominal thicknesses of 0.05 mm, 0.10 mm and 0.15 mm (hereafter referred to as “thin grain-oriented magnetic steel strip”). It gives general requirements, magnetic properties, geometric characteristics, tolerances, technological characteristics, as well as inspection procedures.

This Standard applies to thin non-oriented magnetic steel strip and thin grain-oriented magnetic steel strip (hereafter simply referred to as “steel strip”) supplied in the fully annealed condition in coils and intended for the construction of magnetic circuits used for frequencies of 100 Hz to 20 kHz.

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

IEC 60404-8-8:1991 *Magnetic materials—Part 8: Specifications for individual materials—Section 8: Specification for thin magnetic steel strip 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

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.

JIS C 2550-1 *Test methods for electrical steel strip and sheet—Part 1: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of an Epstein frame*

JIS C 2550-2 *Test methods for electrical steel strip and sheet—Part 2: Methods of determination of the geometrical characteristics of electrical steel strip and sheet*