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(JEMA/JSA)

**Classification — Surface insulations  
of electrical steel sheet, strip and  
laminations**

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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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# Classification—Surface insulations of electrical steel sheet, strip and laminations

## Introduction

This Japanese Industrial Standard has been prepared based on the first edition of IEC 60404-1-1 published in 2004 without any modifications of the technical contents.

## 1 Scope

This Standard establishes a classification of surface insulations for electrical steel sheet, strip and laminations according to their general composition, relative insulating ability and function.

These surface insulations are either oxide layers or applied coatings.

The purpose of this classification is to create a nomenclature for the various types of surface insulations and to assist users of surface insulations by providing general information about the chemical nature and use of the surface insulations.

It is not the intent of this classification to specify insulation requirements in terms of specific values of surface insulation resistance. Such requirements are agreed between the purchaser and the manufacturer, where applicable.

The classification is used in conjunction with the various specifications for cold rolled electrical steels (see clause 2).

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

IEC 60404-1-1:2004 *Magnetic materials—Part 1-1: Classification—Surface insulations of electrical steel sheet, strip and laminations* (IDT)

The 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 standard contains provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standard (including amendments) indicated below shall be applied.

JIS C 2550-4 *Test methods for electrical steel strip and sheet—Part 4: Methods of test for the determination of surface insulation resistance of electrical strip and sheet*

NOTE : Corresponding International Standard: IEC 60404-11 *Magnetic materials—Part 11: Method of test for the determination of surface insulation resistance of magnetic sheet and strip* (MOD)