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Copper bus bars

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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 Japan Copper and Brass Association (JCBA)/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 H 3140:2012** is replaced with this Standard.

However, **JIS H 3140:2012** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until March 19, 2019.

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Copper bus bars

1 Scope

This Japanese Industrial Standard specifies the extended copper bus bars (hereafter referred to as bus bars).

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 H 0321 *General rules for inspection of non-ferrous metal materials*

JIS H 0500 *Glossary of terms used in wrought copper and copper alloys*

JIS H 0505 *Measuring methods for electrical resistivity and conductivity of non-ferrous materials*

JIS H 1051 *Copper and copper alloys—Determination of copper content*

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*

JIS Z 2248 *Metallic materials—Bend test*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS H 0500** apply.

3.1

oxygen free copper

copper which contains copper 99.96 % or more, satisfying the quality (hydrogen embrittlement) specified in **5.5**

NOTE Copper including oxygen may be subject to the hydrogen embrittlement at the elevated temperature of 400 °C or higher. Utilizing this property, the oxygen contained in copper is detectable by the hydrogen embrittlement test.

3.2

eddy current conductivity meter

device for measuring the electric conductivity of metal based on the correlation between the magnitude and distribution of eddy current generated in the metal by an adjacent a.c. magnetic field, and its electric conductivity

4 Name, alloy No. and designation

The name, alloy No. and designation of bus bars are as given in Table 1. The product designation (see Table 3 and Table 4) shall be indicated by the designation given in Table 1 followed by the temper designation.