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Electroplated coatings of chromium for engineering purposes

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ICS 25.220.40

Descriptors : metal coatings, coatings, chromium, refractory metals, transition metals,
electroplating, electrodeposition, metal plating, wear resistance

Reference number : JIS H 8615 : 1999 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently, **JIS H 8615 : 1993** is replaced with this Standard, **JIS H 8615 : 1999**.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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Electroplated coatings of chromium for engineering purposes

Introduction This Japanese Industrial Standard has been prepared based on the corresponding International Standard as shown in the Remarks to 1 Scope without any modification of technical contents, but some items which are not specified in corresponding International Standard are supplemently specified in this Japanese Industrial Standard.

1 Scope This Japanese Industrial Standard specifies electroplated coatings (hereinafter referred to as coating) of chromium on the significant surface of iron, steel, or nonferrous basis metal for the engineering purpose to improve abrasion resistance or other properties.

Remarks: The International Standard corresponding to this Standard is as follows.

ISO 6158:1984 Metallic coatings—Electroplated coatings of chromium for engineering purposes

Informative reference: The services and the thickness of this coatings are shown as an example in Informative Attached Table 1.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard.

JIS B 0601 *Surface roughness—Definitions and designation*

JIS B 7502 *Micrometer callipers*

JIS B 7515 *Cylinder gauges*

JIS H 0400 *Glossary of terms used in electroplating*

JIS H 0404 *Graphical symbol for electroplated coating*

JIS H 8501 *Methods of thickness test for metallic coatings*

JIS H 8502 *Methods of corrosion resistance test for metallic coatings*

JIS H 8503 *Methods of wear resistance test for metallic coatings*

JIS K 8951 *Sulfuric acid*

JIS K 8983 *Copper (II) sulfate pentahydrate*

JIS Z 2244 *Vickers hardness test—Test method*

JIS Z 9031 *Random sampling methods*

3 Definitions For the purpose of this Standard, the definitions in **JIS H 0400** apply, and the rest of the terms are as follows.

- a) **significant surface** The surface of the parts which is plated or to be plated and whose coating is essential for performance and appearance.
- b) **porous chromium coatings** This is chromium coatings on which grooves or holes are formed, and classified into the following two types.