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Test methods for image clarity
of anodic oxide coatings on
aluminium and aluminium alloys—
Part 2 : Instrumental method

ICS 25.220.20

Descriptors : aluminium, aluminium alloys, protective coatings, oxidation methods,
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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. By this establishment **JIS H 8686 : 1994** was withdrawn and "Instrumental method" which had been specified in **JIS H 8686** withdrawn has been replaced with this Standard.

For the purposes of making them easy to compare this Standard with International Standards; to prepare Japanese Industrial Standard conforming with International Standards; and to propose a draft for International Standard which is based on Japanese Industrial Standard, (1) Chart scale method and (2) Instrumental method which had been specified in **JIS H 8686 : 1994** are individually standardized as follows.

JIS H 8686-1 *Test methods for image clarity of anodic oxide coatings on aluminium and aluminium alloys—Part 1 : Chart scale method*

JIS H 8686-2 *Test methods for image clarity of anodic oxide coatings on aluminium and aluminium alloys—Part 2 : Instrumental method*

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the original JIS is to be the final authority.

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Test methods for image clarity of anodic oxide coatings on aluminium and aluminium alloys

— Part 2 : Instrumental method

Introduction This Japanese Industrial Standard has been prepared based on ISO 10216, *Anodized aluminium and aluminium alloys – Instrumental determination of image clarity of anodic oxidation coatings – Instrumental method* published in 1992 as the first edition without changing the technical contents. Some clauses (Normative reference and Principal) which are not specified in the corresponding International Standard are additionally specified.

The standards specifying the test methods for image clarity of anodic oxidation coatings on aluminium and aluminium alloys are composed of two types, the chart scale method for examining visually the shape of the image projected on a test surface and the instrumental method which examines the image clarity by dividing the reflection from the test surface and diffused light and application of them is determined by the agreement between the interested parties.

The portion underlined with dots is the item not specified in the corresponding International Standard.

1 Scope This Japanese Industrial Standard specifies the test method by the instrumental method for image clarity of the anodic oxidation coatings (hereafter referred to as “coating”) applied on the product of aluminium and aluminium alloys (hereafter referred to as “product”).

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

ISO 10216 : 1992 *Anodized aluminium and aluminium alloys – Instrumental determination of image clarity of anodic oxidation coatings – Instrumental method*

2 Normative references The following standards contain provisions which, through reference in this Standard constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS C 7711 *Designation method for mounted filaments of incandescent tungsten lamps*

JIS H 0201 *Glossary of terms used in the surface treatment of aluminium*

JIS Z 8741 *Specular glossiness – Methods of measurement*

3 Definitions For the purpose of this Standard the definitions given in JIS H 0201 apply.

4 Principal This method is to measure the quantity of light by dividing the reflection from the test surface into the specular reflection and the diffused light by means of travelling optical comb and obtain the image clarity value by the ratio of specular reflection to total