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JIS H 8685-1 : 1999

**Accelerated test methods
for light fastness of coloured
anodic oxide coatings on
aluminium and aluminium alloys—
Part 1 : Test for light fastness
to artificial light**

ICS 25.220.20

Descriptors : aluminium, aluminium alloys, protective coatings, oxidation methods,
anodizing, anodic coating, colourfastness tests

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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 By this establishment **JIS H 8685 : 1988** was withdrawn and "Test for light fastness to artificial light" which had been specified in **JIS H 8685** withdrawn has been replaced with this Standard.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, "Test for light fastness to artificial light" which had been specified in **JIS H 8685 : 1988** and "Test for light fastness to ultra-violet light" are individually standardized as follows.

JIS H 8685-1 *Accelerated test methods for light fastness of coloured anodic oxide coatings on aluminium and aluminium alloys—Part 1 : Test for light fastness to artificial light*

JIS H 8685-2 *Accelerated test methods for light fastness of coloured anodic oxide coatings on aluminium and aluminium alloys—Part 2 : Test for light fastness to ultra-violet light*

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the original JIS is to be the final authority.

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Accelerated test methods for light fastness of coloured anodic oxide coatings on aluminium and aluminium alloys

—Part 1: Test for light fastness to artificial light

Introduction This Japanese Industrial Standard has been prepared based on ISO 2135, *Anodizing of aluminium and its alloys – Accelerated test of light fastness of coloured anodic oxide coatings using artificial light* published in 1984 as the first edition. The items (Definitions and Principle) not included in the corresponding International Standard are added to this Standard and the content (Procedure) which the corresponding International Standard specifies are partially modified in this Standard.

The standards specifying the accelerated test method for examining light fastness of the coloured anodic oxide coatings on aluminium and its alloys are composed of two standards respectively adopting the method which uses the artificial light source mainly of visible radiation and the method which uses the artificial light source mainly of ultra violet. The application of these standards is determined by the agreement between the parties concerned taking the method for colouring, the condition of use of products, etc. into account.

The “portions” underlined with dots are the matters added and modified.

1 Scope This Japanese Industrial Standard specifies an accelerated test method based on the colour fastness test of coloured anodic oxide coatings (hereafter referred to as “coloured coatings”) on the products of aluminium and its alloys (hereafter referred to as “products”).

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

ISO 2135 : 1984 *Anodizing of aluminium and its alloys – Accelerated test of light fastness of coloured anodic oxide coatings using artificial light*

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 indicated below shall be applied.

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

JIS L 0804 *Grey scale for assessing change in colour*

JIS L 0841 *Test methods for colour fastness to daylight*