



JAPANESE
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STANDARD

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JIS H 8685-2 : 1999

**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**

ICS 25.220.20

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

Reference number : JIS H 8685-2 : 1999 (E)

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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. Consequently **JIS H 8685 : 1988** is replaced with **JIS H 8685-2 : 1999**.

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 2 : Test for light fastness to ultra-violet light

Introduction This Japanese Industrial Standard has been prepared based on ISO 6581 *Anodizing of aluminium and its alloys – Determination of the fastness to ultra-violet light of coloured anodic oxide coatings* published in 1980 as the first edition, without changing the technical contents, but some clauses (Normative reference, Definitions, Principle and Specimens) not specified in the corresponding International Standard are additionally specified.

The standards specifying the test methods for light fastness of coloured anodic oxide coatings on aluminium and its alloys are composed of two standards respectively specifying a test for light fastness to artificial light and a test for light fastness to ultra-violet light. The application of them is determined by the agreement between the interested parties taking the type of coatings, colouring method, environment in use, etc. into account.

The “portions” underlined with dots are the matters not specified in the corresponding International Standard.

1 Scope This Japanese Industrial Standard specifies the accelerated test methods for light fastness of coloured anodic oxide coatings (hereafter referred to as “coloured coatings”), applied on the products of aluminium and its alloys (hereafter referred to as “products”) based on the test for light fastness to ultra-violet light.

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

ISO 6581 : 1980 *Anodizing of aluminium and its alloys – Determination of the fastness to ultra-violet light of coloured anodic oxide coatings*

2 Normative reference The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. The most recent edition of this standard indicated below shall be applied.

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

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

4 Principle This is a test method that mounting a specimen to be standard for comparison and a specimen to be tested which are placed side by side on an ultra-violet accelerated light fastness testing machine. the light fastness of coloured coatings to ultra-violet light is examined by and irradiating the ultra-violet light until they show an expected change of colour.

According to the agreement between the interested parties, the light fastness to ultra-violet light may be evaluated by measuring the change of colour using an instrument instead of using a specimen to be standard for comparison.