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Anodic oxide coatings on aluminium and aluminium alloys

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alloys, non-ferrous alloys, anodizing

Reference number: JIS H 8601:1999 (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 8601**: 1992 is replaced with **JIS H 8601**: 1999.

This revision is based on **ISO 7599**: 1983 Anodizing of aluminium and its alloys—General specifications for anodic oxide coatings on aluminium, in order to expedite the comparison of international conformity between the Japanese Industrial Standard and International Standard and make the Japanese Industrial Standard in compliance with the International Standard.

In **JIS H 8601**, the following Annexes are included.

In Annex 1 (informative), the general specification for anodizing adaptability and qualities of anodic oxide coatings on aluminium and aluminium alloys specified in **ISO 7599** and **JIS H 9500** is described. In Annex 2 (informative), the recommended practice for anodizing on aluminium and aluminium alloys specified in **JIS H 9500** is described.

Date of Establishment: 1952-02-12

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Investigated by: Japanese Industrial Standards Committee

Divisional Council on Non-Ferrous Metals

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 7599: 1983 Anodizing of aluminium and its alloys—General specifications for anodic oxide coatings on aluminium without any modification in technical content for the corresponding parts. The some items not specified in the corresponding International Standard (such as, characteristic properties, and quality) on the quality, have been additionally contained herein as Japanese Industrial Standard.

The parts underlined with dots are the matters not included in the corresponding International Standard.

- 1 Scope This Japanese Industrial Standard is a general specifications for the anodic oxide coatings (hereafter referred to as "coatings") on aluminium and aluminium alloys, and specifies qualities and test methods. However, except the following coatings.
- a) Non-porous oxide coatings of the barrier layer type.
- b) Oxide coatings intended merely to prepare the substrate for subsequent application of organic coatings or electrodeposition of metals.
- c) Hard anodic oxide coatings specified in JIS H 8603.
 - Remarks: The corresponding International Standard to this Standard is as follows:
 - ISO 7599: 1983 Anodizing of aluminium and its alloys—General specifications for anodic oxide coatings on aluminium
- 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 H 0201 Glossary of terms used in the surface treatment of aluminium
 - JIS H 8603 Hard anodic oxidation coatings on aluminium and its alloys for engineering purposes
 - JIS H 8680-1 Test methods for thickness of anodic oxide coatings on aluminium and aluminium alloys—Part 1: Microscopical method
 - JIS H 8680-2 Test methods for thickness of anodic oxide coatings on aluminium and aluminium alloys—Part 2: Eddy current method
 - JIS H 8680-3 Test methods for thickness of anodic oxide coatings on aluminium and aluminium alloys—Part 3: Non-destructive measurement by split-beam microscope
 - JIS H 8681-1 Test methods for corrosion resistance of anodic oxide coatings on aluminium and aluminium alloys—Part 1: Alkali resistance test

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