JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 8601 : 2025

(JAPA/JSA)

Anodic oxide coatings on aluminium and aluminium alloys

ICS 25.220.20

Reference number: JIS H 8601 : 2025 (E)

Date of Establishment: 1952-02-12

Date of Revision: 2025-12-22

Date of Public Notice in Official Gazette: 2025-12-22

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical committee on Metal and Inorganic Materials

JIS H 8601 : 2025, First English edition published in 2026-03

Translated and published by: Japanese Standards Association
Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

Printed in Japan SW

Contents

Page

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Aluminium Products Association (JAPA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS H 8601** : 1999), which has been technically revised.

However, **JIS H 8601** : 1999 may be applied in the JIS mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 21 December 2026.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

Blank

Anodic oxide coatings on aluminium and aluminium alloys

Introduction

This Japanese Industrial Standard has been prepared based on ISO 7599 : 2018, Edition 3, with some modifications of the technical contents to align with the actual situation of the Japanese market.

Annex JA and Annex JB are unique to JIS and not given in the corresponding International Standard. The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard specifies the requirements for the anodic oxide coatings [hereafter referred to as coating (s)] on aluminium and aluminium alloys. However, it is not applicable to barrier layer anodic oxide coatings, chromic acid anodic oxide coatings, phosphoric acid anodic oxide coatings, oxide coatings intended merely to prepare the substrate for subsequent application of organic coatings or electrodeposition of metals, and hard anodic oxide coatings.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 7599 : 2018 *Anodizing of aluminium and its alloys — Method for specifying decorative and protective anodic oxidation coatings on aluminium* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21-1.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

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

NOTE Normative reference in the corresponding International Standard: ISO 7583 *Anodizing of aluminium and its alloys — Terms and definitions*

JIS H 8680-1 *Test methods for thickness of anodic oxide coatings on aluminium and aluminium alloys — Part 1: Microscopical method*

NOTE Normative reference in the corresponding International Standard: ISO 1463 *Metallic and oxide coatings — Measurement of coating thickness — Microscopical method*

JIS H 8680-2 *Test methods for thickness of anodic oxide coatings on aluminium and aluminium alloys — Part 2: Eddy current method*