

Translated and Published by Japanese Standards Association

JIS H 8603:1999

Hard anodic oxide coatings on aluminium and its alloys

ICS 25.220.20

Descriptors: aluminium, aluminium alloys, aluminium-containing alloys, anodic coating, oxidation methods, anodizing

Reference number: JIS H 8603: 1999 (E)

H 8603:1999

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 Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS H 8603**: 1995 is replaced with **JIS H 8603**: 1999.

Date of Establishment: 1995-02-01

Date of Revision: 1999-08-20

Date of Public Notice in Official Gazette: 1999-08-20

Investigated by: Japanese Industrial Standards Committee

Divisional Council on Non-Ferrous Metals

JIS H 8603:1999, First English edition published in 2000-06

Translated and published by: Japanese Standards Association 4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

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Printed in Japan

Hard anodic oxide coatings on aluminium and its alloys

JIS H 8603: 1999

Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 10074 Specification for hard anodic oxidation coatings on aluminium and its alloys, published in 1994, without any modification in technical contents. The items not specified in the corresponding International Standard (such as Marking) have been additionally contained herein as Japanese Industrial Standard.

The parts with sidelines or dotted underlines are the matters not included in the corresponding International Standard.

1 Scope This Japanese Industrial Standard specifies the significant surface of hard anodic oxidation coatings (hereafter referred to as "coatings") on the basis metal of malleable materials, castings, etc. of aluminium and its alloys for the purposes of abrasion resistance or the like.

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

ISO 10074: 1994 Specification for hard anodic oxidation coatings on aluminium and its alloys

- 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 4000 Aluminium and aluminium alloy sheets and plates, strip and coiled sheets
 - JIS H 4040 Aluminium and aluminium alloy rods, bars and wires
 - JIS H 4080 Aluminium and aluminium alloy seamless pipes and tubes
 - JIS H 4100 Aluminium and aluminium alloy extruded shapes
 - JIS H 4140 Aluminium and aluminium alloy forgings
 - JIS H 5202 Aluminium alloy castings
 - JIS H 5302 Aluminium alloys die castings
 - JIS H 8503 Methods of wear resistance test for metallic coatings
 - 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 8682-1 Test methods for abrasion resistance of anodic oxide coatings on aluminium and aluminium alloys—Part 1: Wheel wear test
 - JIS H 8682-2 Test methods for abrasion resistance of anodic oxide coatings on aluminium and aluminium alloys—Part 2: Abrasive jet test