

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 4201 : 2018

(JMA/JSA)

Magnesium alloy sheets, plates and strips

ICS 77.150.20

Reference number : JIS H 4201 : 2018 (E)

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H 4201 : 2018

Date of Establishment: 1964-06-01

Date of Revision: 2018-03-20

Date of Public Notice in Official Gazette: 2018-03-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic Materials

JIS H 4201 : 2018, First English edition published in 2018-11

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
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Printed in Japan

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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 The Japan Magnesium Association (JMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS H 4201:2011** is replaced with this Standard.

It should be noted that being in conformance with this Standard may come under the use of the patent rights held by the following:

Patent No.	Title of patent	Patent holder	Expiration date
No. 3030338	Method of producing a high strength, flame retardant magnesium alloy	National Institute of Advanced Industrial Science and Technology	October 9, 2018
No. 5035893	A high strength and high ductility, flame retardant magnesium alloy and manufacturing method thereof	National Institute of Advanced Industrial Science and Technology	August 30, 2027
No. 3905115	High strength and high toughness magnesium alloy and manufacturing method thereof	Yoshihiro Kawamura	November 26, 2024
No. 4500916	Magnesium alloy and manufacturing method thereof	Kumamoto University Honda Motor Co., Ltd. Fuji Light Metal Co., Ltd. Japan Steel Works Ltd.	September 28, 2024
No. 5024705	Magnesium alloy material and a method of manufacturing	Kobe Steel Ltd. Nissan Motor Co., Ltd. Kumamoto University	November 16, 2027
No. 5581505	Magnesium alloy sheet	Nissan Motor Co., Ltd. Kumamoto University Kumamoto Industry Support Foundation	March 31, 2031

The relevant holders of the above-mentioned patent rights have indicated an intention of granting license to anyone under the nondiscriminatory and reasonable conditions, except to the other relevant holders of the patent rights related to this Standard who will not grant their licenses under the same conditions.

It should be noted that following this Standard does not always refer to granting a free license.

There is the possibility that some parts of this Standard may conflict with patent rights other than mentioned above. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights.

The “patent rights” as mentioned here include patent right, application for a patent after opening to the public or utility model right.

Magnesium alloy sheets, plates and strips

Introduction

This Japanese Industrial Standard has been prepared based on ISO 3116 : 2007, Edition 4, with some modifications of the technical contents.

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 JA.

1 Scope

This Standard specifies the rolled magnesium alloy sheets, plates and strips (hereafter referred to as plates and strips).

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

ISO 3116 : 2007 *Magnesium and magnesium alloys — Wrought magnesium alloys* (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

The following standards contain provisions which, 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 0001 *Aluminium, magnesium and their alloys — Temper designation*

JIS H 0321 *General rules for inspection of non-ferrous metal materials*

JIS H 1331 *Magnesium and magnesium alloys — General rules for sampling and analytical methods*

JIS H 1332 *Methods for determination of aluminium in magnesium and magnesium alloys*

JIS H 1333 *Methods for determination of zinc in magnesium and magnesium alloys*

JIS H 1334 *Methods for determination of manganese in magnesium and magnesium alloys*

JIS H 1335 *Methods for determination of silicon in magnesium and magnesium alloys*