



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 2221 : 2006

(JMA/JSA)

Magnesium alloy ingots for castings

ICS 77.150.20

Reference number : JIS H 2221 : 2006 (E)



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Foreword

This translation has been made based on the original Japanese Industrial Standard 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 2221 : 2000** is replaced with this Standard.

This revision has been made based on **ISO 16220 : 2005** *Magnesium and magnesium alloys—Magnesium alloy ingots and castings* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 1961-11-01

Date of Revision: 2006-08-20

Date of Public Notice in Official Gazette: 2006-08-21

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Non-Ferrous Metals

JIS H 2221 : 2006, First English edition published in 2007-02

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

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Magnesium alloy ingots for castings

Introduction This Japanese Industrial Standard has been prepared based on the second edition of **ISO 16220** *Magnesium and magnesium alloys—Magnesium alloy ingots and castings* published in 2005 with some modifications of the technical contents. Some alloy ingot classes and analytical methods not specified in the International Standard are added as **JIS**.

The portions given sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex (informative).

1 Scope This Standard specifies the magnesium alloy ingots (hereafter referred to as “alloy ingots”) to be used for sand castings, metal castings, precision castings, or other castings.

NOTE : The International Standard corresponding to this Standard is as follows.

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**.

ISO 16220 : 2005 *Magnesium and magnesium alloys—Magnesium alloy ingots and castings* (MOD)

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

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*

JIS H 1336 *Methods for determination of copper in magnesium and magnesium alloys*

JIS H 1337 *Method for determination of nickel in magnesium and magnesium alloys*

JIS H 1338 *Methods for determination of iron in magnesium and magnesium alloys*

JIS H 1340 *Method for determination of zirconium in magnesium alloys*

JIS H 1345 *Method for determination of rare earths in magnesium alloys*