

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 0544 : 2017

**Magnesium alloys — Flammability test
method**

ICS 77.120.20

Reference number : JIS H 0544 : 2017 (E)

PROTECTED BY COPYRIGHT

6 5

H 0544 : 2017

Date of Establishment: 2017-11-20

Date of Public Notice in Official Gazette: 2017-11-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic Materials

JIS H 0544 : 2017, First English edition published in 2018-02

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,
the original JIS is to be the final authority.

© JSA 2018

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

NH/HN

PROTECTED BY COPYRIGHT

Contents

	Page
1	Scope 1
2	Normative references 1
3	Terms and definitions 1
4	Flammability 1
4.1	Sample 1
4.2	Test environment 2
4.3	Test apparatus 2
4.4	Test procedure 3
5	Classification of test results 5
6	Test report 5
7	Safety control 6

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

This **JIS** document is protected by the Copyright Law.

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

Magnesium alloys — Flammability test method

1 Scope

This Japanese Industrial Standard specifies the flammability test method for cast and wrought products manufactured from magnesium alloys.

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 C 1602 *Thermocouples*

JIS H 4201 *Magnesium alloy sheets, plates, strips and coiled sheets*

JIS H 4202 *Magnesium alloy seamless pipes and tubes*

JIS H 4203 *Magnesium alloy bars*

JIS H 4204 *Magnesium alloy extruded shapes*

JIS H 4205 *Magnesium alloy forgings*

JIS H 5203 *Magnesium alloy castings*

JIS H 5303 *Magnesium alloy die castings*

JIS K 2240 *Liquefied petroleum gases*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 combustion

generation of flame continuing for at least 3 s observed under the prescribed test condition

3.2 ignition

development of flame at the beginning of combustion observed under the prescribed test condition

4 Flammability

4.1 Sample

Sample used for the test shall be as follows.

- a) The type of sample specified in JIS H 4201 to JIS H 4205, JIS H 5203 or JIS H 5303 shall be used. When using any other sample than above, the chemical composition and manufacturing process of the sample used shall be reported.