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**Methods for determination of beryllium in
magnesium and magnesium alloys**

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Contents

	Page
1 Scope	1
2 Normative references	1
3 General matters	1
4 Classification of determination methods	1
5 Sampling, storing and weighing of analytical sample	2
5.1 Sampling method	2
5.2 Storing of analytical sample	2
5.3 Weighing of analytical sample	2
6 ICP atomic emission spectrometric method (Method A)	3
6.1 Summary	3
6.2 Reagents	3
6.3 Amount of sample to be weighed out	3
6.4 Operation	3
6.5 Blank test	4
6.6 Preparation of working curve	4
6.7 Calculation	4
7 ICP atomic emission spectrometric method (Method B)	5
7.1 Summary	5
7.2 Reagents	5
7.3 Amount of sample to be weighed out	7
7.4 Operation	7
7.5 Blank test	7
7.6 Preparation of working curve	7
7.7 Calculation	8
8 Atomic absorption method	8
8.1 Summary	8
8.2 Reagents	8
8.3 Amount of sample to be weighed out	9
8.4 Operation	9
8.5 Blank test	10
8.6 Preparation of working curve	10
8.7 Calculation	10

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 1339 : 1987** is replaced with this Standard.

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Methods for determination of beryllium in magnesium and magnesium alloys

1 Scope

This Japanese Industrial Standard specifies the methods for determination of beryllium in magnesium and magnesium alloys according to the inductively coupled plasma atomic emission spectrometric method (hereafter, referred to as the “ICP atomic emission spectrometric method”) and the atomic absorption spectrometry.

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 K 0050 *General rules for chemical analysis*

JIS K 0116 *General rules for atomic emission spectrometry*

JIS K 0121 *General rules for atomic absorption spectrometry*

JIS Z 8402-1 *Accuracy (trueness and precision) of measurement methods and results — Part 1 : General principles and definitions*

3 General matters

General matters common to the method for chemical analysis shall be in accordance with JIS K 0050, JIS K 0116, JIS K 0121 and JIS Z 8402-1.

4 Classification of determination methods

The determination method of beryllium content shall be in accordance with one of the following.

- a) **ICP atomic emission spectrometric method (Method A)** This method is applicable to magnesium of 0.000 05 % (mass fraction) or over up to and including 0.001 % (mass fraction) in beryllium content.
- b) **ICP atomic emission spectrometric method (Method B)** This method is applicable to magnesium alloy of 0.000 05 % (mass fraction) or over up to and including 0.002 % (mass fraction) in beryllium content.
- c) **Atomic absorption method** This method is applicable to magnesium alloy of 0.001 % (mass fraction) or over in beryllium content.