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(JFA/JSA)

**Methods for chemical analysis of
ferroboron — Part 1: Methods for
determination of boron content**

ICS 77.100

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard submitted by Japan Ferroalloy Association (JFA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently, **JIS G 1327 : 1992** has been withdrawn, one of the separated parts of which is replaced with this Standard.

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JIS G 1327 consists of the following 4 parts under the general title "*Methods for chemical analysis of ferroboron*" :

Part 1 : Methods for determination of boron content

Part 2 : Methods for determination of carbon content

Part 3 : Method for determination of silicon content

Part 4 : Methods for determination of aluminium content

Methods for chemical analysis of ferroboron —

Part 1 : Methods for determination of boron content

Introduction

JIS G 1327 was established in 1968 and after that, the second revision was carried out in 1992. To correspond to the progress thereafter of analytical technology, JIS G 1327 : 1992 was withdrawn at this time, and this Japanese Industrial Standard has been established by dividing a part of the said standard so as to specify the methods for determination of boron content.

The corresponding International Standard has not been established at this point.

1 Scope

This Standard specifies the methods for determination of boron content in ferroboron.

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 G 1301 *Ferroalloys — General rules for chemical analysis*

JIS K 8001 *General rule for test methods of reagents*

3 General

General matters common to the methods for chemical analysis shall be in accordance with JIS G 1301.

4 Classification of determination methods

The determination methods of boron content shall be in accordance with either of the following.

- a) **Ion exchange — sodium hydroxide titration method** This method is applicable to the sample of 14.0 % (mass fraction) or over up to and including 23.0 % (mass fraction) in boron content.
- b) **ICP atomic emission spectroscopy** This method is applicable to the sample of