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Ⓔ JIS G 2318 : 1998

Ferroboron

ICS 77.100

Descriptors : ferro-alloys, alloys, boron-containing alloys, boron

Reference number : JIS G 2318 : 1998 (E)



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G 2318:1998

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS G 2318: 1986** is replaced with **JIS G 2318: 1998**.

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4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
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Ferroboron

Introduction This revision is carried out for the purpose of compliance with the corresponding International Standard.

The Annex in this Standard is prepared based on **ISO 10386, Ferroboron — Specification and conditions of delivery** issued as the first edition in 1994 without changing the technical contents and can be applied in place of the provisions in the text of this Standard.

The “Informative reference” underlined with dotted line in this Annex is the item which does not exist in the original International Standard.

1 Scope This Japanese Industrial Standard specifies the ferroboron to be used mainly as degassing agent and additive of alloy composition for manufacturing of iron and steel.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS G 1301 *General rules for chemical analysis of ferroalloys*

JIS G 1327 *Methods for chemical analysis of ferroboron*

JIS G 1351 *Method for X-ray fluorescence spectrometric analysis of ferroalloys*

JIS G 1501 *General rules for sampling of ferroalloys*

JIS G 1603 *Methods of sampling for chemical analysis of ferroalloys (Part 3 Ferrophosphorus, manganese metal, silicon metal, chromium metal, calcium silicon and ferroboron)*

JIS G 1641 *Methods of sampling for size analysis of ferroalloys and size determination*

3 Classification and symbol The class and symbol shall be as given in Table 1.

Table 1 Class and symbol

Class		Symbol
High carbon ferroboron	No. 1	FBH1
	No. 2	FBH2
Low carbon ferroboron	No. 1	FBL1
	No. 2	FBL2

4 Method of lot formation

4.1 The lot formation shall be taken any one of the graded lot method, blended lot method and tapped lot method.

4.2 When the graded lot method is applied, boron content shall be employed for grade divisions, and the divisional interval of grade shall be not more than 2 %.

4.3 The lot size shall be as given in Table 2.

Table 2 Lot size

Method of lot formation	Graded lot	Blended lot	Tapped lot
Lot size	10 t max.	2 t max.	One tap

5 Quality

5.1 Chemical composition The chemical composition shall be as specified in Table 3.

Table 3 Chemical composition

Class		Symbol	Chemical composition % (m/m)			
			B	C	Si	Al
High carbon ferroboron	No. 1	FBH1	19 to 23	2.0 max.	4.0 max.	0.50 max.
	No. 2	FBH2	14 to 18	2.0 max.	4.0 max.	0.50 max.
Low carbon ferroboron	No. 1	FBL1	19 to 23	0.1 max.	2.0 max.	12 max.
	No. 2	FBL2	14 to 18	0.1 max.	2.0 max.	10 max.

5.2 Particle size The particle size shall generally be as given in Table 4.

Table 4 Particle size

Class	Symbol	Particle size mm
General size	g	1 to 100
Small size	s	1 to 30

6 Tests

6.1 Sampling The sampling and the preparation of samples for the determination of average quality of one lot shall be as described in the following standards:

JIS G 1501, JIS G 1603

6.2 Chemical analysis test The method of chemical analysis shall be as given in the following standards:

JIS G 1301, JIS G 1327, JIS G 1351