

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

☞ JIS G 2315 : 1998

Silicon — Chromium

ICS 77.100

Descriptors : silicon, chromium-containing alloys, alloys, ferro-alloys, chromium,
silicon-containing alloys, reducing agents

Reference number : JIS G 2315 : 1998 (E)

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G 2315:1998

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 2315: 1986** is replaced with **JIS G 2315: 1998**.

Date of Establishment: 1953-07-24

Date of Revision: 1998-02-20

Date of Public Notice in Official Gazette: 1998-02-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Iron and Steel

JIS G 2315:1998, First English edition published in 1999-01

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,
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Printed in Japan

Silicon–Chromium

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 5449, Ferrosilicochromium—Specification and conditions of delivery** issued as the first edition in 1980 without changing the technical contents and the style of Japanese Standard, 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 silicon-chromium to be used mainly as reducing 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 1325 *Methods for chemical analysis of ferrosilicochromium*

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

JIS G 1501 *General rules for sampling of ferroalloys*

JIS G 1601 *Methods of sampling for chemical analysis of ferroalloys (Part 1 : Ferromanganese, ferrosilicon, ferrochromium, ferrosilicomanganese and ferrosilicochromium)*

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

3 Classification and symbol The silicon-chromium shall be of one class, and its symbol shall be SiCr.

4 Method of lot formation

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

4.2 When the graded lot method is applied, either of chromium or silicon content shall be employed for grade divisions, and the divisional interval of grade shall be not more than 3 %.

4.3 The lot size shall be as given in Table 1.

Table 1 Lot size

Method of lot formation	Graded lot	Blended lot	Tapped lot
Lot size	500 t max.	15 t max.	One tap



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5 Quality

5.1 Chemical composition The chemical composition shall be as specified in Table 2. However, it may be designated as given in Table 3.

Table 2 Chemical composition

Class	Symbol	Chemical composition % (m/m)			
		Si	Cr	C	P
Silicon-chromium	Si Cr	40 min.	30 min.	0.10 max.	0.04 max.

Table 3 Designated chemical composition

Class	Chemical composition % (m/m)	
	C	P
Silicon-chromium	0.06 max. 0.03 max.	0.03 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	10 to 150
Small size	s	10 to 50
Medium size	m	10 to 100

6 Tests

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

JIS G 1501, JIS G 1601

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

JIS G 1301, JIS G 1325, JIS G 1351

6.3 Particle size test The testing method for particle size shall be as described in JIS G 1641.