JIS

JAPANESE INDUSTRIAL STANDARD

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JIS G 2319 : 1998

Ferroniobium

ICS 77.100

Descriptors : ferro-alloys, alloys, niobium, transition metals

Reference number : **JIS G 2319 : 1998 (E)**

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 2319**: 1986 is replaced with **JIS G 2319**: 1998.

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

The Annex to this Standard is prepared based on **ISO 5453**, *Ferroniobium — Specification and conditions of delivery* issued as the first edition in 1980 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 ferroniobium to be used mainly as 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 1328 *Methods for chemical analysis of ferroniobium*

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

JIS G 1501 *General rules for sampling of ferroalloys*

JIS G 1602 *Methods of sampling for chemical analysis of ferroalloys (Part 2: Ferrotungsten, ferromolybdenum, ferrovanadium, ferrotitanium and ferroniobium)*

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
Ferroniobium	No. 1	FNb1
	No. 2	FNb2

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, summed amount of niobium and tantalum shall be employed for grade divisions, and the divisional interval of grade shall be not more than 2 %.