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**Ferrous alloys — General rules for chemical  
analysis**

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In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

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## 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 Japan Ferroalloy Association (JFA)/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 G 1301:2008** is replaced with this Standard.

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## Ferrous alloys — General rules for chemical analysis

### 1 Scope

This Japanese Industrial Standard specifies general requirements for analyses of ferrous alloys in the standards which define the analysis methods for each component in ferrous alloys specified in Japanese Industrial Standard (JIS) (JIS G 2301 to JIS G 2304, JIS G 2306 to JIS G 2316, JIS G 2318 and JIS G 2319) (hereafter referred to as the “standard series of chemical analysis of ferrous alloys”) (Table 1).

**Table 1 Chemical analysis of ferrous alloys**

No. of JIS for analysis method	Title of JIS	Analyte or type/analyte
JIS G 1311-1 to 7	Method for chemical analysis of ferromanganese Parts 1 to 7	Mn, C, Si, P, S, B, N
JIS G 1312-1 to 6	Method for chemical analysis of ferrosilicon Parts 1 to 6	Si, C, P, S, Al, Ti
JIS G 1313-1 to 6	Method for chemical analysis of ferrochromium Parts 1 to 6	Cr, C, Si, P, S, N
JIS G 1314-1 to 6	Method for chemical analysis of silicomanganese Parts 1 to 6	Mn, Si, C, P, S, B
JIS G 1316	Method for chemical analysis of ferrotungsten	W, C, Si, Mn, P, S, Sn, Cu, As, Sb, Bi
JIS G 1317	Method for chemical analysis of ferromolybdenum	Mo, C, Si, P, S, Cu, Al
JIS G 1318	Method for chemical analysis of ferrovanadium	V, C, Si, P, S, Al
JIS G 1319	Methods for chemical analysis of ferrotitanium	Ti, C, Si, Mn, P, S
JIS G 1320	Ferrophosphorus — Methods for determination of phosphorus content	P
JIS G 1321-1 to 5	Method for chemical analysis of manganese metal Parts 1 to 5	C, Si, P, S, Fe
JIS G 1322-1 to 7	Method for chemical analysis of metallic silicon Parts 1 to 7	Si, C, P, S, Fe, Al, Ca
JIS G 1323	Methods for chemical analysis of chromium metal	Cr <sup>a)</sup> , C, Si, P, S, Fe, Al
JIS G 1324	Methods for chemical analysis of calcium-silicon	Ca, Si, C, P