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Iron and steel—
Methods for determination
of manganese content

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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 in accordance with the Industrial Standardization Law. Consequently **JIS G 1213**: 1981 is replaced with **JIS G 1213**: 2001.

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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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## JIS G 1213: 2001

## Iron and steel— Methods for determination of manganese content

- 1 Scope This Japanese Industrial Standard specifies the methods for determination of manganese in 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 (including amendments) indicated below shall be applied.

JIS G 1201 General rules for chemical analysis of iron and steel

JIS K 8001 General rule for test methods of reagents

JIS K 8005 Reference materials for volumetric analysis

JIS Z 8402-6 Accuracy (trueness and precision) of measurement methods and results—Part 6: Use in practice of accuracy values

- 3 General matters General matters common to the determination methods shall be given in JIS G 1201.
- 4 Classification of determination methods The method for determination of manganese shall conform to either of the following:
- a) Ammonium peroxodisulfate oxidative sodium oxalate/potassium permanganate back titration method This method is applied to the sample of  $\geq 0.1 \% (m/m)$  and  $\leq 30 \% (m/m)$  in manganese content, and the determination method shall be as given in Annex 1 (normative).
- b) **Permanganic acid absorptiometry** This method is applied to the sample of  $\ge 0.01 \%$  (m/m) and  $\le 20 \%$  (m/m) in manganese content, and the determination method shall be as given in Annex 2 (normative).