JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS M 8223 : 1997

Iron ores—Methods for determination of nickel content

ICS 73.060.10

Descriptors : determination of content, chemical analysis and testing, nickel, iron ores, metalliferous minerals

Reference number : **JIS M 8223 : 1997 (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 M 8223:1983 is replaced with JIS M 8223:1997.

In this revision, the relevant provisions of ISO Standard are described as Annex 2, intending conformance with International Standard.

Date of Establishment: 1953-03-28

Date of Revision: 1997-08-20

Date of Public Notice in Official Gazette: 1997-08-20

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

JIS M 8223:1997, First English edition published in 1998-09

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,
the original JIS is to be the final authority.

Iron ores — Methods for determination of nickel content

Introduction Annex 1 of this Standard is JIS specified by modifying the dimethylglyoxime absorptiometry in **JIS M 8223**:1983. Annex 2 is JIS prepared based on the nickel part of **ISO 9685**, *Iron ores — Determination of nickel and/or chromium contents — Flame atomic absorption spectrometric method*, published in 1991.

1 Scope This Japanese Industrial Standard specifies the methods for determination of nickel content in iron ores.

2 Normative reference The following standard contains provisions which, through reference in this Standard, constitutes provisions of this Standard. The most recent edition of the standard indicated below shall be applied.

JIS M 8202 *Iron ores — General rules for chemical analysis*

3 General matters General matters common to the determination methods shall be as specified in **JIS M 8202**.

4 Classification of determination methods The method for determination of nickel shall conform to either of the following methods.

a) **Dimethylglyoxime absorptiometry** This method is applied to the sample of 0.01 % (m/m) or over up to and including 2 % (m/m) nickel content, which is as described in Annex 1.

b) **Iron separation atomic absorption method** This method is applied to the sample of 0.001 % (m/m) or over up to and including 0.10 % (m/m) nickel content, which is as described in Annex 2.