



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS M 8218 : 1997

**Iron ores — Methods for determination
of copper content**

ICS 73.060.10

Descriptors : determination of content, chemical analysis and testing, copper,
non-ferrous metals, transition metals, iron ores, metalliferous
minerals

Reference number : JIS M 8218 : 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 8218:1983 is replaced with JIS M 8218:1997.

In this revision, the relevant provisions of ISO Standard are described as Annex 2 and Annex 3, 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 8218:1997, First English edition published in 1998-09

Translated and published by: Japanese Standards Association
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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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Printed in Japan

Iron ores — Methods for determination of copper content

Introduction Annex 1 of this Standard is JIS wherein methods for determination of copper content of a very small amount area are newly specified. Annex 2 is JIS prepared based on **ISO 5418-1**, *Iron ores—Determination of copper content—Part 1: 2,2'-Biquinolyl spectrophotometric method* published in 1994, and Annex 3 is JIS prepared based on **ISO 4693**, *Iron ores—Determination of copper content—Flame atomic absorption spectrometric method* published in 1986 without modifying the technical content and the structure of JIS.

1 Scope This Japanese Industrial Standard specifies the methods for determination of copper 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 methods for determination shall be as specified in **JIS M 8202**.

4 The determination methods The methods for determination of copper content in iron ores shall be as prescribed in any of the following methods.

- a) **Iron separation atomic absorption method** This method is applicable to the sample of 0.001 % (m/m) or over up to and including 0.05 % (m/m) copper content, which is as prescribed in Annex 1.
- b) **2,2'-Biquinolyl spectrophotometric method [identical with International Standard (ISO 5418-1)]** This method is applicable to the sample of 0.004 % (m/m) or over up to and including 0.8 % (m/m) copper content, which is as prescribed in Annex 2.
- c) **Flame atomic absorption spectrometric method [identical with International Standard (ISO 4693)]** This method is applicable to the sample of 0.003 % (m/m) or over up to and including 1.0 % (m/m) copper content, which is as prescribed in Annex 3.