

Translated and Published by Japanese Standards Association

JIS G 1256: 1997

Iron and steel — Method for X-ray fluorescence spectrometric analysis

ICS 77.080.01

Descriptors: iron, transition metals, steels, X-ray fluorescence spectrometry,

fluorimetry, X-ray analysis, spectroscopy

Reference number: JIS G 1256: 1997 (E)

G 1256: 1997

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 1256:1982 (former edition) is replaced with this Standard.

This revision intends not only to extend the determination range but also to improve the analytical precision with the specification of criteria on apparatus performance and of tolerance on verification and/or calibration of working curve.

Further, reference materials and calibration samples are definitely specified in this revision.

Date of Establishment: 1973-03-01

Date of Revision: 1997-04-20

Date of Public Notice in Official Gazette: 1997-04-21

Investigated by: Japanese Industrial Standards Committee

Divisional Council on Iron and Steel

IIS G 1256: 1997, First English edition published in 1997-12

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.

© JSA 1997 All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Iron and steel—Method for X-ray fluorescence spectrometric analysis

1 Scope This Japanese Industrial Standard specifies the method for X-ray fluorescence spectrometric analysis of iron and steel and super alloy samples of lump form or plate form, which is applied to determination of each component as given in Table 1.

Table 1 Applicable components and determination range

Constituent	Determination range % (m/m)
Silicon	0.002 or over up to and incl. 10
Manganese	0.001 or over up to and incl. 30
Phosphorus	0.001 or over up to and incl. 1
Sulfur	0.001 or over up to and incl. 0.6
Nickel	0.002 or over up to and incl. 99.5
Chromium	0.001 or over up to and incl. 50
Molybdenum	0.001 or over up to and incl. 30
Copper	0.001 or over up to and incl. 10
Tungsten	0.002 or over up to and incl. 25
Vanadium	0.001 or over up to and incl. 6
Cobalt	0.002 or over up to and incl. 60
Titanium	0.001 or over up to and incl. 10
Aluminium	0.002 or over up to and incl. 12
Arsenic	0.002 or over up to and incl. 0.3
Tin	0.002 or over up to and incl. 0.6
Lead	0.002 or over up to and incl. 0.4
Zinc	0.001 or over up to and incl. 0.1
Zirconium	0.001 or over up to and incl. 2
Niobium	0.001 or over up to and incl. 10
Magnesium	0.003 or over up to and incl. 0.2
Calcium	0.001 or over up to and incl. 0.1
Tantalum	0.002 or over up to and incl. 15
Antimony	0.002 or over up to and incl. 0.7
Selenium	0.001 or over up to and incl. 0.5
Tellurium	0.002 or over up to and incl. 0.2
Bismuth	0.001 or over up to and incl. 0.2
Iron	0.003 or over up to and incl. 50
Lanthanum	0.002 or over up to and incl. 0.2
Cerium	0.003 or over up to and incl. 0.6
Praseodymium	0.002 or over up to and incl. 0.1
Neodymium	0.003 or over up to and incl. 0.3

Remarks 1 The normative references to this Standard are as follows.

JIS G 0203 Glossary of terms used in iron and steel (products and quality)

JIS G 0303 General rules for inspection of steel