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**Methods of measurement for ferrite
content in austenitic and austenitic-
ferritic stainless steel deposited metals**

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In the event of any doubts arising as to the contents,
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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 The Japan Welding Engineering Society (JWES) 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 Z 3119:2006** is replaced with this Standard.

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Methods of measurement for ferrite content in austenitic and austenitic-ferritic stainless steel deposited metals

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 8249** : 2000, Edition 2, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the methods of measurement for ferrite content in austenitic and austenitic-ferritic stainless steel deposited metals by means of microstructure, constitutional diagram and magnetic instrument.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 8249 : 2000 *Welding — Determination of Ferrite Number (FN) in austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metals* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0320 *Standard test method for heat analysis of steel products*

JIS G 0321 *Product analysis and its tolerance for wrought steel*

JIS G 0555 *Microscopic testing method for the non-metallic inclusions in steel*

JIS G 3101 *Rolled steels for general structure*

JIS G 3106 *Rolled steels for welded structure*

JIS G 4304 *Hot-rolled stainless steel plate, sheet and strip*

JIS G 4305 *Cold-rolled stainless steel plate, sheet and strip*

JIS R 6001-2 *Bonded abrasives — Determination and designation of grain size distribution — Part 2 : Microgrits*