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JIS G 0572 : 2006

(JSSA/JSA)

**Method of ferric sulfate-sulfuric acid test
for stainless steel**

ICS 77.060 ; 77.140.20

Reference number : JIS G 0572 : 2006 (E)

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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 Japan Stainless Steel Association (JSSA)/Japanese Standards Association (JSA) 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 G 0572: 1984** is replaced with this Standard.

This Standard has been made based on **ISO 3651-2: 1998** *Determination of resistance to intergranular corrosion of stainless steels—Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels—Corrosion test in media containing sulfuric acid* for the purpose of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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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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Method of ferric sulfate-sulfuric acid test for stainless steel

Introduction This Japanese Industrial Standard has been prepared based on the second edition of ISO 3651-2 *Determination of resistance to intergranular corrosion of stainless steels—Part 2 : Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels—Corrosion test in media containing sulfuric acid* published in 1998 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex (informative).

1 Scope This Standard specifies the method for test of the intergranular corrosion by measurement of corrosion loss in weight in the solution of ferric sulfate and boiled sulfuric acid of austenitic stainless steels.

NOTE : The International Standard corresponding to this Standard is as follows.

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.

ISO 3651-2 *Determination of resistance to intergranular corrosion of stainless steels—Part 2 : Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels—Corrosion test in media containing sulfuric acid* (MOD)

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 K 8951 *Sulfuric acid*

JIS K 8981 *Iron (III) sulfate *n*-hydrate* * (Reagent)

JIS R 6251 *Abrasive cloths*

JIS R 6252 *Abrasive papers*

JIS R 6253 *Waterproof abrasive papers*

JIS Z 8401 *Guide to the rounding of numbers*

JIS Z 8804 *Methods of measuring specific gravity of liquid*

Note * : The name ferric sulfate is conventional.