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(JSSA/JSA)

Corrosion-resistant and heat-resistant superalloy, nickel and nickel alloy — Plate, sheet and strip

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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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Contents

Page

Foreword

This Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 4902**:1991), which has been technically revised, and **JIS H 4551**:2000, which has been withdrawn.

It should be noted that being in conformance with this Standard may come under the use of the patent rights and other rights held by the following:

Symbol of grade	Patent holder	Title of invention	Patent number	Registration date of establishment of patent right
NCF354	Nippon Yakin Kogyo Co., Ltd.	Stainless steel for use in environments containing organic acids and salt	4325141	19 June 2009
NCF020	Nippon Yakin Kogyo Co., Ltd.	Fe-Ni-Cr alloy superior in sulfuric acid corrosion resistance, intergranular corrosion resistance and surface properties, and method for producing the same	5950306	17 June 2016
NW6210	Hitachi Metals, Ltd.	Ni-base alloy with excellent hot forgeability and corrosion resistance	5725630	10 April 2015

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Some parts of this Standard may conflict with patent rights and other rights other than mentioned above. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights and other rights.

The “patent rights and other rights” as mentioned here include patent right, published patent application or utility model right.

NOTE Based on Article 9 of the Supplementary Provisions to the Unfair Competition Prevention Act etc., any submission of proposal, or employment of procedures such as deliberation by the Japanese Industrial Standards Committee under the previous Industrial Standardization Act shall be deemed to have been conducted pursuant to the provision of Article 12, paragraph (1) of the revised Industrial Standardization Act.

Corrosion-resistant and heat-resistant superalloy, nickel and nickel alloy — Plate, sheet and strip

1 Scope

This Japanese Industrial Standard specifies requirements for corrosion-resistant and heat-resistant superalloy, nickel and nickel alloy plates and sheets (hereafter referred to as plates and sheets) and strips (hereafter referred to as strips) manufactured by hot-rolling or cold-rolling.

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 0404 *Steel and steel products — General technical delivery requirements*

JIS G 0415 *Steel and steel products — Inspection documents*

JIS G 0551 *Steels — Micrographic determination of the apparent grain size*

JIS G 0567 *Method of elevated temperature tensile test for steels and heat-resisting alloys*

JIS G 0802 *Ultrasonic testing of stainless steel plates*

JIS H 1270 *Nickel and nickel alloys — Sampling and general rules for analytical methods*

JIS Z 2241 *Metallic materials — Tensile testing — Method of test at room temperature*

JIS Z 2243-1 *Brinell hardness test — Part 1 : Test method*

JIS Z 2244 *Vickers hardness test — Test method*

JIS Z 2245 *Rockwell hardness test — Test method*

JIS Z 2343-1 *Non-destructive testing — Penetrant testing — Part 1 : General principles — Method for liquid penetrant testing and classification of the penetrant indication*

3 Symbol of grade

Plates, sheets, and strips are classified into 27 grades. The classification and the symbols of grades shall be as given in Table 1.