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JIS H 4553 : 1999

Nickel and nickel alloy bars

ICS 77.150.40

Descriptors : nickel, nickel alloys, bars (materials), materials by form, transition metals

Reference number : JIS H 4553 : 1999 (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 H 4553 : 1991** is replaced with **JIS H 4553 : 1999**.

This revision has been made based on **ISO 9722 : 1992**, *Nickel and nickel alloys—Composition and forms of wrought products* and **ISO 9723 : 1992**, *Nickel and nickel alloy bars* for the purposes of making easy to compare this Standard with International Standards; to prepare Japanese Industrial Standard conforming with International Standards; and to propose a draft of International Standard which is based on Japanese Industrial Standard.

Being in conformance with this Standard may come under the use of the following patent right:

Denomination of invention: Corrosion-resisting nickel alloy

The term of validity: June 26, 2001

Besides, this description does not affect to any extent the validity, the scope and the like of the above patent right.

The holder of this patent right gives guarantee to the Japanese Industrial Standards Committee with respect to his/her willingness to permit anyone to exercise the relevant patent right under the nondiscriminatory and reasonable conditions. There is a possibility that a part of this Standard conflicts with a patent right, application for a patent after opened, utility model right or application for registration of utility model after opening to the public which have other technical properties than those above-mentioned. The Minister of International Trade and Industry 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 technical properties of this kind.

Date of Establishment: 1978-04-01

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Nickel and nickel alloy bars

Introduction This Standard is the Japanese Industrial Standard prepared based on **ISO 9722 : 1992**, *Nickel and nickel alloys—Composition and forms of wrought products* and **ISO 9723 : 1992**, *Nickel and nickel alloy bars*, published in 1992 as the first edition, in which the corresponding parts in the International Standards are contained without modifying the technical contents.

1 Scope This Standard specifies requirements for nickel and nickel alloy bars mainly used for corrosion resisting materials in the finished condition and for further working in the following size ranges:

- Cold-worked bars up to and including 65 mm diameter or width across flats
- Hot-worked bars up to and including 315 mm diameter or width across flats

Remarks 1 Bars referred to expanded or elongated solid products supplied with uniform cross-sections and in straight form over the entire length. However, they may be supplied in coiled form where requested by the purchaser.

2 The International Standards corresponding to this Standard are listed as follows.

ISO 9722 : 1992 *Nickel and nickel alloys—Composition and forms of wrought products*

ISO 9723 : 1992 *Nickel and nickel alloy bars*

3 The classes not specified in this Standard but specified in the corresponding International Standards are specified in the following standard.

JIS G 4901 *Corrosion-resisting and heat-resisting superalloy bars*

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall apply.

JIS H 0321 *General rules for inspection of non-ferrous metal materials*

JIS H 1270 *General rules for chemical analysis of nickel and nickel alloys*

JIS H 1271 *Methods for chemical analysis of nickel-copper alloy*

JIS H 1272 *Methods for determination of copper in nickel and nickel alloys*

JIS H 1273 *Methods for determination of iron in nickel and nickel alloys*

JIS H 1274 *Methods for determination of manganese in nickel and nickel alloys*

JIS H 1275 *Methods for determination of carbon in nickel and nickel alloys*

JIS H 1276 *Methods for determination of silicon in nickel and nickel alloys*

JIS H 1277 *Methods for determination of sulfur in nickel and nickel alloys*

JIS H 1278 *Methods for determination of phosphorus in nickel and nickel alloys*