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Methods for determination of iron in nickel and nickel alloys

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Reference number : JIS H 1273 : 1998 (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 1273 : 1988** is replaced with **JIS H 1273 : 1998**.

In this revision, in order to make comparison with ISO, preparation of JIS agreeing with ISO, and proposal to the draft of ISO based on JIS easy, **ISO 6351 : 1985**, *Nickel—Determination of silver, bismuth, cadmium, cobalt, copper, iron, manganese, lead and zinc contents—Flame atomic absorption spectrometric method*, **ISO 7528 : 1989**, *Nickel alloys—Determination of iron content—Titrimetric method with potassium dichromate*, **ISO 7530-1 : 1990**, *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 1 : General requirements and sample dissolution*, and **ISO 7530-5 : 1990**, *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 5 : Determination of iron content* are made a part of this 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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Methods for determination of iron in nickel and nickel alloys

Introduction This Japanese Industrial Standard is prepared so as to conform in technical contents with corresponding parts of **ISO 6351** : 1985, *Nickel—Determination of silver, bismuth, cadmium, cobalt, copper, iron, manganese, lead and zinc contents—Flame atomic absorption spectrometric method*, **ISO 7528** : 1989, *Nickel alloys—Determination of iron content—Titrimetric method with potassium dichromate*, **ISO 7530-1** : 1990, *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 1 : General requirements and sample dissolution* and **ISO 7530-5** : 1990, *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 5 : Determination of iron content* (in part of determination of iron in **ISO 6351**, and the whole in **ISO 7528** and **ISO 7530**).

Further, one determination method without including any corresponding ISO is specified as Japanese Industrial Standard.

1 Scope This Japanese Industrial Standard specifies the methods for determination of iron content in nickel and nickel alloys.

Remarks : The International Standards corresponding to this Standard are as follows.

ISO 6351 : 1985 *Nickel—Determination of silver, bismuth, cadmium, cobalt, copper, iron, manganese, lead and zinc contents—Flame atomic absorption spectrometric method*

ISO 7528 : 1989 *Nickel alloys—Determination of iron content—Titrimetric method with potassium dichromate*

ISO 7530-1 : 1990 *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 1 : General requirements and sample dissolution*

ISO 7530-5 : 1990 *Nickel alloys—Flame atomic absorption spectrometric analysis—Part 5 : Determination of iron content*

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 be applied.

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

JIS K 8005 *Reference materials for volumetric analysis*

JIS K 8580 *Tin*

3 General matters General matters common to the methods for chemical analysis shall be as specified in **JIS H 1270** and **JIS K 8005**.

4 Classification of determination methods The methods for determination of iron shall be in accordance with any one of the following methods, and applied reagents to each determination method shall be as given in Table 1.