

INTERNATIONAL STANDARD

ISO
9722

First edition
1992-11-01

Nickel and nickel alloys — Composition and forms of wrought products

*Nickel et alliages de nickel — Composition chimique et formes des
produits corroyés*



Reference number
ISO 9722:1992(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9722 was prepared by Technical Committee ISO/TC 155, *Nickel and nickel alloys*, Sub-Committee SC 2, *Wrought and cast nickel and nickel alloys*.

Annex A forms an integral part of this International Standard.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Nickel and nickel alloys — Composition and forms of wrought products

1 Scope

This International Standard lists the chemical composition of wrought nickel and nickel alloys and the forms of wrought products in which they are commercially available.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6207:1992, *Seamless nickel and nickel alloy tube*.

ISO 6208:1992, *Nickel and nickel alloy plate, sheet and strip*.

ISO 6372-1:1989, *Nickel and nickel alloys — Terms and definitions — Part 1: Materials*.

ISO 6372-3:1989, *Nickel and nickel alloys — Terms and definitions — Part 3: Wrought products and castings*.

ISO/TR 7003:1990, *Unified format for the designation of metals*.

ISO/TR 9721:—¹⁾, *Nickel and nickel alloys — Code of designation based on chemical symbols*.

ISO 9723:1992, *Nickel and nickel alloy bars*.

ISO 9724:1992, *Nickel and nickel alloy wire and drawing stock*.

ISO 9725:1992, *Nickel and nickel alloy forgings*.

3 Definitions

For the purposes of this International Standard, the definitions for nickel and nickel alloys in ISO 6372-1 and for wrought products in ISO 6372-3 apply.

4 Alloy identification

For the purposes of this International Standard, the principles for alloy identification in ISO/TR 7003 and ISO/TR 9721 apply.

1) To be published.

5 Composition

5.1 The compositions of nickel and nickel alloys are shown in table 1.

The composition limits do not preclude the possible presence of other elements that are not specified. If the purchaser's requirements necessitate limits for any other element that is not specified, these shall be agreed upon between the purchaser and the supplier. The percentage content of elements shown

as "remainder" shall be calculated by difference from 100 %.

5.2 For a list of ISO analytical standards, see annex A.

6 Forms of wrought products

The forms of wrought products in which nickel and nickel alloys are available are indicated in table 2 by an "X" in the appropriate column.