
**Nickel and nickel alloys — Refined
nickel — Sampling**

Nickel et alliages de nickel — Nickel raffiné — Échantillonnage



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and symbols	1
3.1 Terms and definitions.....	1
3.2 Symbols.....	1
4 Presentation of the product	2
5 Principle of sampling procedure	2
6 Sample preparation	2
7 Sampling of whole-sheet cathodes	3
7.1 Primary sampling.....	3
7.2 Secondary sampling.....	5
8 Sampling of drums containing forms requiring comminution or machining	5
8.1 General.....	5
8.2 Primary sampling.....	6
8.3 Secondary sampling.....	8
9 Sampling of drums containing forms not requiring comminution or machining	9
9.1 General.....	9
9.2 Primary sampling.....	9
9.3 Secondary sampling.....	9
10 Sampling report	9
Annex A (informative) Justification of the number of primary and secondary increments selected	10
Annex B (informative) Technical conditions for drilling and milling	14
Bibliography	16

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 155, *Nickel and nickel alloys*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document describes the sampling procedures previously established by ISO 7156:1991, which was withdrawn during a systematic review in 2016.

The aim of this document is to fill a void for refined nickel for which the specification and the analysis are standardized. The sampling represents the third area to fully cover the standardization of refined nickel.

Nickel and nickel alloys — Refined nickel — Sampling

1 Scope

This document specifies sampling procedures for up to 25 tonnes (metric tons) of refined nickel of the same composition, size and shape and manufactured under similar conditions of production.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6372, *Nickel and nickel alloys — Terms and definitions*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6372 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.2 Symbols

For the purposes of this document, the following symbols apply.

N	The number of units which constitute the primary sample. These units are the primary increments.
n	The number of increments taken from each of the primary increments.
$N \times n$	The number of secondary increments that constitute the secondary sample.
U	The total number of units of packaging in a lot of 25 tonnes or less. These units may be whole-sheet cathodes or drums
v_1	Within-lot variance (between primary increments) for a particular impurity.
v_2	Within-unit variance (between secondary increments issued from one primary increment) for the same impurity.
v_e	Variance attributable to the selection of samples.
a	Feed per tooth, in mm/min.
D	Diameter of drill or milling cutter, in mm.