

Translated English of Chinese Standard: GB/T2072-2020

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 77.150.40

H 62

GB/T 2072-2020

Replacing GB/T 2072-2007

Nickel and nickel alloy strip and foil

镍及镍合金带、箔材

Issued on: September 29, 2020

Implemented on: August 01, 2021

Issued by: State Administration for Market Regulation;

**Standardization Administration of the People's Republic of
China.**

Table of Contents

Foreword.....	3
1 Scope.....	5
2 Normative references.....	5
3 Classification and marking	6
4 Technical requirements	6
5 Test methods.....	9
6 Inspection rules.....	10
7 Marks, packaging, transportation, storage and quality certificate.....	12
8 Order sheet (or contract).....	12

Nickel and nickel alloy strip and foil

1 Scope

This Standard specifies classification and marking, technical requirements, inspection methods, inspection rules and marks, packaging, transportation, storage and quality certificate as well as order sheet (contract) for nickel and nickel alloy strip and foil.

This Standard is applicable to nickel and nickel alloy strip and foil used in industrial fields such as instrumentation, communication and electronics.

2 Normative references

The following referenced documents are indispensable for the application 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.

GB/T 228.1-2010, *Metallic materials - Tensile testing - Part 1: Method of test at room temperature*

GB/T 232, *Metallic materials - Bend test*

GB/T 4156, *Metallic materials - Sheet and strip - Erichsen cupping test*

GB/T 4340.1, *Metallic materials - Vickers hardness test - Part 1: Test method*

GB/T 5235, *Wrought nickel and nickel alloys - Chemical composition and forms of wrought products*

GB/T 6394, *Metal - Methods for estimating the average grain size*

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 8647 (all parts), *The methods for chemical analysis of nickel*

GB/T 8888, *Wrought heavy non-ferrous metal products-packing, marking, transportation, storing and certificate of quality*

YS/T 325 (all parts), *Methods for chemical analysis of nickel-copper alloy*

4.4.2 Bending test

It may conduct bending test for the product. There shall be no cracks on the outer surface of the strip after bending. The diameter of the bending indenter and the bending angle are negotiated by the supplier and the purchaser.

4.5 Grain size

It may conduct grain size testing for the product. Test results are reported as measured values.

4.6 Surface quality

The surface of the product shall be smooth and clean, without defects that affect the use.

5 Test methods

5.1 Chemical composition

The chemical composition analysis method of the product is carried out in accordance with the provisions of GB/T 8647 and YS/T 325.

5.2 Dimensions and allowable deviation

The dimensions of the product and its allowable deviation are measured with corresponding precision measuring tools. The thickness is measured at a distance not less than 100mm from the end and not less than 5mm from the edge (products with a width less than 50mm are measured at a distance not less than 3mm from the edge).

5.3 Mechanical properties

5.3.1 The tensile test of the product is carried out in accordance with the provisions of GB/T 228.1-2010. Choose P04 sample or P5 sample.

5.3.2 The Vickers hardness test of the product is carried out in accordance with the provisions of GB/T 4340.1.

5.4 Technique performance

5.4.1 The cupping test of the product is carried out in accordance with the provisions of GB/T 4156. The punch diameter is 20mm.

5.4.2 The bending test of the product is carried out in accordance with the provisions of GB/T 232.

the sample is still nonconforming after repeated inspection, the batch of products shall be rejected. The supplier is allowed to inspect the nonconforming items on a coil-by-coil basis. Only conforming products are delivered.

6.5.4 When the dimensions, allowable deviations and the surface quality inspection results are nonconforming, this coil of products shall be rejected.

7 Marks, packaging, transportation, storage and quality certificate

7.1 Product marks

The following marks (or labels) shall be made on the products that have passed the inspection:

- a) Supplier's name or code;
- b) Product designation, specification and state;
- c) Product batch number;
- d) Reference to this Standard.

7.2 Packaging, transportation, storage and quality certificate

The packaging, transportation, storage and quality certificate of the product shall meet the requirements of GB/T 8888.

8 Order sheet (or contract)

The order sheet (or contract) for the products listed in this Standard shall include the following:

- a) Product name;
- b) Designation, specification and state;
- c) Dimensional accuracy;
- d) Bending test (when required);
- e) Grain size (when required);
- f) Weight or number of pieces;

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----