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YS

**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 522-2010

Replacing YS/T 522-2006

Nickel coil

镍箔

(English Translation)

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Foreword

Instead of the standard YS/T 522-2006 "copper nickel and white" (formerly GB/T 5190-1985).

Compared with this standard YS/T 522-2006, the main changes are as follows.

- Standard name from "nickel and copper white" to "nickel foil";
- Increased N5, N7, N8 three grades, chemical composition wherein N5 grades equivalent to grades and ISO standards NW2201 ASTM standards UNSN02201 grade requirements, N7 grade chemical composition equivalent ISO standard grades NW2200 and ASTM standards UNSN02200 grade requirements. Remove the zinc-nickel alloy of manganese and copper-nickel alloy BMn40-1.5 BZn15-20 Two grades;
- Increase the mechanical properties, namely Vickers hardness;
- Increase process performance, namely Cupping test requirements;
- Added "side bending of the foil should not exceed 3mm/m" requirements;
- Original thickness 0.005mm ~ 0.050mm to 0.01mm ~ 0.15mm; width from the original 40mm ~ 80mm to 200mm ~ 300mm; and the elimination of a predetermined length;
- Increase the width of the tolerance of accuracy;
- Thickness and width setting value is adjusted to a range of values;
- Of foil thickness tolerances have been adjusted;
- On the surface quality strict rules;
- Increasing the contract (or purchase order) content.

This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized.

1 Scope

This standard specifies the nickel foil of requirements, test methods, inspection rules, packaging, labeling, transportation, storage, quality certificate and contract (or order Manifest) and so on.

This standard applies to industrial instruments, electronics, etc. with a nickel foil.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Erichsen cupping test GB/T 4156 Metallic materials - Sheet and strip -GB/T 4340.1 metallic materials - Vickers hardness test - Part 1. Test methods GB/T 5235-2007 processing of nickel and nickel alloy chemical composition and shape of the product GB/T 8647 (all parts) methods for chemical analysis of nickel GB/T 8888 heavy non-ferrous metal processing products packaging, labeling, transportation and storage GB/T 26303.3 copper and copper alloy processing material Dimensions test methods Part 3. plate and strip

3.1.1 Grade, status, specifications

Grade foil, status and specifications shall comply with the requirements of Table 1.

Table 1 foil grade, status and specifications

Grade status

thickness/

width/

N2, N4, N5

N6, N7, N8

Hard (Y)

Soft (M)

0.01 ~ 0.02 <=200

0.02 ~ 0.15 <=300

0.02 ~ 0.15 <=300

3.1.2 Tag example

Products marked by order of the product name, grade, supply status, specifications and standards of numbered steps. Tag example as follows.

Produced by N6, hard state, high-precision, the thickness of 0.03mm, a width of 100mm nickel foil labeled.

3.2 Chemical composition

The chemical composition shall comply with the provisions of GB/T 5235 in N2, N4, N5, N6, N7, N8's.