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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25951-2023

Replacing GB/T 25951.1-2010, GB/T 25951.2-2010, GB/T 25951.3-2010

Nickel and nickel alloys - Terms and definitions

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents"

drafting:

This document replaces GB/T 25951:1-2010 "Terms and Definitions of Nickel and Nickel Alloys Part 1: Materials", GB/T 25951:2-

2010 "Terms and Definitions of Nickel and Nickel Alloys Part 2: Refined Products", GB/T 25951:3-2010 "Terms and Definitions of Nickel and Nickel Alloys

Definition Part 3: Processed Products and Castings: With GB/T 25951:1-2010, GB/T 25951:2-2010, GB/T 25951:3-

Compared with:2010, except for structural adjustment and editorial changes, the main technical changes are as follows:

a) Changed the names of some terms: "briquette" was changed to "powder metallurgy briquette", "pellet" was changed to "ball", "shot" was changed to "shot", "high nickel

Matte" changed to "nickel matte" "Bill" changed to "Rough" "Bill" changed to "Bill" "Slab" changed to "Slab" "Wire Billet (Wire

rod)" to "drawn billet (wire rod)" (see Chapter 3, Chapter 2 of the:2010 edition);

b) Changed the definitions of some terms: "alloy", "heat treatable alloy", "non heat treatable alloy", "nickel", "nickel alloy", "refined product"

"Blank", "cathode plate", "granule", "ball", "powder", "shot", "nickel smelting intermediate product", "nickel matte", "nickel oxide", "nickel oxide slag", "bar"

"Wire rod", "pipe", "thick plate", "thin plate", "strip", "round billet", "extrusion billet", "ingot", "slab", "drawing billet (wire bar)", "forging billet"

"Casting" (see Chapter 3, Chapter 2 of the:2010 edition);

c) The terms and definitions of "refined nickel", "flat sheet", "casting" and "melt" have been added (see Chapter 3):

This document is equivalent to ISO 6372:2017 "Terms and Definitions of Nickel and Nickel Alloys": This document has been edited to the following minimum

change:

--- The nature of Appendix A of the original ISO standard is wrong: This document refers to Appendix A as an informative appendix:

1 Scope

This document defines terms used in the field of nickel and nickel alloys, including materials, smelted products (i.e. refined shapes and metallurgical intermediate products), processed

products and castings:

This document is applicable to the production and domestic and foreign trade of nickel and nickel alloy materials, smelted products, processed products and casting products:

2 Normative references

This document has no normative references:

3 Terms and Definitions

3:1 General terms

3:1:1

Alloy alloy

A substance that has metallic properties and is composed of two or more elements that cannot be separated by physical means:

3:1:2

alloying element alloying element

A metal or non-metal element that is added or retained in the base metal in order to make the metal have certain properties:

3:1:3

impurity

A metallic or non-metallic element that is present in a metal but is not intentionally added or retained:

3:1:4

Machining alloy wroughtalloy

alloy (3:1:1) mainly used for the production of processed products (3:3:1:1) by hot and/or cold plastic deformation

3:1:5

casting alloy castingalloy

alloy (3:1:1) primarily used in the production of castings (3:3:3:1):

3:1:6

master alloy masteralloy

Used only for alloys (3:1:1) that are added to the melt (3:3:3:3) for the purpose of adjusting the composition or controlling impurities:

3:1:7

remelted alloy alloyforremelting

Alloy (3:1:1) intended for remelting with or without the addition of small amounts of alloying elements for compositional adjustment:

3:1:8

heat treatable alloy heat-treatablealloy

alloy (3:1:1) whose properties can be optimized by proper heat treatment: