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

GB/T 26521-2024

Nickel carbonate for industrial use

工业碳酸镍

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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 is required. This document replaces GB/T 26521-2011 "Industrial Nickel Carbonate". Compared with GB/T 26521-2011, except for structural adjustment and editing, In addition to the changes in performance, the main technical changes are as follows: Changed the scope (see Chapter 1, Chapter 1 of the.2011 edition); - Added classification (see Chapter 5);- The indicators of manganese, cadmium, chromium, sulfur, lead, chloride and sulfate content were added, and the indicators of cobalt, copper, iron, sodium, zinc, calcium, Indicator of magnesium content (see 6.2,

4.2 of the.2011 edition); Added the determination methods of manganese, cadmium, chromium, sulfur, lead, chloride and sulfate content (see 7.4, 7.6, 7.7); - The determination methods of cobalt, copper, iron, sodium, zinc, calcium and magnesium have been changed (see 7.4,

5.11 of the.2011 edition); - The requirement for shelf life has been deleted (see

8.4 of the.2011 edition). - Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Technical Committee on Chemical Standardization (SAC/TC 63). This document was drafted by: GEM Co., Ltd., Jinchuan Group Nickel Salt Co., Ltd., CNOOC Tianjin Chemical Research and Design Institute Co., Ltd. Company, Zhejiang Luke New Materials Co., Ltd., Jilin Jinen Nickel Industry Co., Ltd., Ningde Brunp Recycling Technology Co., Ltd., Yichang Brunp CYCLE TECHNOLOGY LIMITED. The main drafters of this document are. Wei Qiong, Ma Zaisheng, Wang Ying, Liu Zhijun, Wen Song, Yang Yunguang, Wang Hao, Xu

Kaihua, Dong Cunwu, Zhang Kai, Meng Qingwei, Wang Yingnan, Wang Zhifu, Hua Wenchao, Shen Yanling, and Li Jing. This document was first published in 2011 and this is the first revision. Industrial Nickel Carbonate

1 Scope

GB/T 26521-2024 is the Chinese standard for industrial nickel carbonate. It is a feedstock rather than an end product, used to make nickel catalysts, nickel salts, pigments, ceramic colours and, increasingly, the precursors of lithium battery cathode material, and in each of those the impurities matter more than the assay: iron, copper, cobalt, zinc, calcium and sodium carried through from the leaching and precipitation stages end up in the finished product where they poison a catalyst or shorten a cell. The standard sets the classification and the requirements, the nickel content, the moisture and the limits on each impurity by grade, together with the appearance and the granulometry; then the test methods, the titrimetric and instrumental procedures for each determination; then the inspection rules, the sampling and the acceptance; and then the marking, packaging, transport and storage. It takes effect on 1 April 2025.

This document specifies the classification, technical requirements, test methods, inspection rules, marking and accompanying documents, packaging, transportation, etc. of industrial nickel carbonate. and storage. This document applies to the production and inspection of industrial nickel carbonate.

Note. This product is mainly used in the manufacture of raw materials for batteries, electroplating, ceramics, catalysts and other industries.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 191-2008 Pictorial markings for packaging, storage and transportation

GB/T 6678 General Principles for Sampling of Chemical Products

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off values and expression and determination of limit values

JJG 768 Emission Spectrometer

HG/T 3696.1 Preparation of standard solutions, preparations and products for chemical analysis of inorganic chemical products Part

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Molecular formula

Molecular formula. $\text{NiCO}_3 \cdot x\text{H}_2\text{O}$

5 Categories

Industrial nickel carbonate is divided into the following categories according to its use. Class I. Batteries for industrial use; Category II. Raw materials for electroplating, ceramics, catalysts and other industries. -

6 Technical requirements

6.1 Appearance. light green powder.