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

GB/T 26055-2022

Replacing GB/T 26055-2010

Reproduced tungsten carbide powder

再生碳化钨粉

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1 Scope

GB/T 26055-2022 is the Chinese national standard on reproduced tungsten carbide powder, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 11 July 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2023. Classification: ICS 77.160, CCS H71. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification, technical requirements, test methods, inspection rules, marking, packaging, transportation, storage, accompanying documents, and order form contents of reproduced tungsten carbide powder. This document is applicable to reproduced tungsten carbide powder produced by the electrolytic process and using recycled cemented carbide as raw material.

2 Normative references

The following documents contain the provisions which, through normative reference in this document, constitute the essential provisions of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments)

is applicable to this document.

GB/T 1480 Metallic powders - Determination of particle size by dry sieving

GB/T 3249 Test method for Fisher number of metal powders and related compounds

GB/T 4324.12 Methods for chemical analysis of tungsten - Part 12: Determination of silicon content - Chlorization-molybdenum blue spectrophotometry

GB/T 4324.25 Methods for chemical analysis of tungsten - Part 25: Determination of oxygen content - Pulse heating inert gas fusion-infrared absorption method

GB/T 5124.1 Methods for chemical analysis of hardmetals - Determination of total carbon content - Gravimetric method

GB/T 5124.2 Methods for chemical analysis of hardmetals - Determination of insoluble (free) carbon content - Gravimetric method

GB/T 5314 Powders for powder metallurgical purposes - Sampling

GB/T 26050 Hardmetals - Determination of contents of metallic elements by X-ray fluorescence - Fusion method

5.2 Particle size Reproduced tungsten carbide powder shall be sifted through a sieve with an aperture size of 150 μm , and the oversize powder shall not exceed 5% (mass fraction). The Fisher particle size of reproduced tungsten carbide powder shall not be greater than 4.0 μm .

5.3 Appearance quality The reproduced tungsten carbide powder is gray-black powder, and the particle size and color of the powder shall be uniform; it shall be dry and have no agglomeration and no visible impurities.

6.1 Chemical composition

6.1.1 The determination of the total carbon content of the product shall be carried out in accordance with the provisions of GB/T 5124.1.

6.1.2 The determination of the free carbon content of the product shall be carried out in accordance with the provisions of GB/T 5124.2.

6.1.3 The determination of Co, Ni, Fe, and Ti contents of products shall be carried out according to the provisions of GB/T 26050.

6.1.4 The determination of the Si content of the products shall be carried out according to the provisions of GB/T 4324.12.

6.1.5 The determination of the O content of the products shall be carried out according to the provisions of GB/T 4324.25.

6.2 Particle size The product shall be sifted according to the provisions of GB/T 1480, and

the determination of Fisher particle size shall be carried out according to the provisions of GB/T 3249.

6.3 Appearance quality The appearance quality of the product shall be inspected visually.

7.1 Inspection and acceptance accompanying documents

8.1 Marking The outer packaging of products that have passed the inspection shall be marked with the following contents:

- a) Supplier name;
- b) Product name and grade;
- c) Batch number;

8.2 Packaging The product shall be packaged in polyethylene plastic bags, and each bag shall have a net weight of 50 kg; it shall be placed in a plastic packaging drum or iron drum and sealed with a cover, or it can be packed according to the requirements of the order form.

8.3 Transportation The product shall be protected from rain and moisture during transportation, and the transportation vehicles shall be clean. During the handling process, it shall not be rolled, put upside down and violently bumped, and the sealed packaging of the product shall not be damaged.

8.4 Storage The product shall be stored in a dry, ventilated place with no acid and no alkaline atmosphere to prevent oxidation; the storage period shall not exceed half a year.

8.5 Accompanying documents Each batch of products shall be attached with accompanying documents, in addition to supplier information, product information, the number of this document, date of manufacture, or date of packaging, the following contents should be included.

- a) Product quality certificate, the contents are as follows: The main performance of the product; The quality certification obtained by the product, and various analysis and inspection results approved by the supplier's technical supervision department.