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

GB/T 1773-2025

Replacing GB/T 1773-2008

Flake silver powder

片状银粉

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document replaces GB/T 1773-2008 "Flake Silver Powder". Compared with GB/T 1773-2008, the main differences are structural adjustments and editorial changes.

In addition, the main technological changes are as follows.

- a) Added grades PAg-S6.0 and PAg-S10.0 for flake silver powder, and deleted grade PAg-S8 (see 4.1, 3.1 in the 2008 edition);
- b) Product labeling has been changed (see 4.2, 3.1 of the 2008 edition);
- c) Limits for the chemical impurity elements "Ru, Ca, Mn, Cr, Mg, Zn, Co" have been added (see 5.1);
- d) The particle size distribution, specific surface area, loose density, tapped density, loss on burn, and moisture content range of PAg-S6.0 and PAg-S10.0 were increased. Enclosure (see 5.2);
- e) The moisture content test method has been changed, replacing "loss on burn" with "moisture content" (see 6.7, 4.6 of the 2008 edition);
- f) The inspection and acceptance procedures for flake silver powder have been changed (see 7.1, 5.1 in the 2008 edition);
- g) Sampling requirements for testing flake silver powder have been added (see 7.4);
- h) The arbitration sampling method for flake silver powder has been changed (see 7.5,

5.1.2 of the 2008 edition);

i) Rounding of test results has been added, and the rounded value comparison method is used for determination (see 7.6.1);

j) Changes were made to the markings, packaging, shipping, storage, and accompanying documentation (see 8.3, 6.2 of the 2008 edition);

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Nonferrous Metals Industry Association.

This document is under the jurisdiction of the National Technical Committee on Standardization of Nonferrous Metals (SAC/TC243).

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This document was first published in 1988, revised for the first time in 1995, revised for the second time in 2008, and this is the third revision. flake silver powder

1 Scope

This document specifies the classification and marking, technical requirements, test methods, inspection rules, labeling, packaging, transportation, storage, and accompanying procedures for flake silver powder.

Line documents and order contents.

This document applies to flake silver powder for electronic pastes.

2 Normative references

GB/T 191

GB/T 1479.3

GB/T 1774-2009

GB/T 4309

GB/T 5162

GB/T 8170

GB/T 19077

GB/T 19445

GB/T 36590-2018

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1

The silver powder is in the form of flakes.

3.2 Symbols

The following symbols apply to this document.

D10. The particle size corresponding to a sample when the cumulative particle size distribution percentage reaches 10%.

D50. The particle size at which the cumulative particle size distribution percentage of a sample reaches 50%.

D90. The particle size corresponding to a sample when the cumulative particle size distribution percentage reaches 90%.

4.1 Product Classification

Based on the different average particle size (D50), and according to its upper limit value, it is divided into 4 grades, according to GB/T 4309.