ICS 77.150.99
CCS H68

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 1774-2009

Replacing GB/T 1774-1995

Superfine silver powder

超细银粉

Issued on: January 5, 2009 **Implemented on: November 1, 2009**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of China

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Foreword

This standard replaces GB/T 1774-1995 "silver powder." This standard compared with GB/T 1774-1995, the main changes are as follows:

--- Original standard product designation revision of PAg-G0.2, PAg-G2.0, PAg-G7.0.

--- Increasing the particle size characteristic parameters D10, D50, D90.

--- Using GB/T 19077.1 "laser diffraction particle size analysis' ultrafine silver particle size measured and indicated particle size characteristics parameter.

--- The electronic products lead-free, cadmium international trends, increase harmful impurity elements Cd maximum allowable amount of 0.001%.

--- Increase the burning rate, specific surface area, particle size distribution and other requirements. Appendix A of this standard is a normative appendix. The standard proposed by China Nonferrous Metals Industry Association. This standard Nonferrous Metals by the National Standardization Technical Committee. This standard is drafted by: Your research Platinum Limited. Participated in the drafting of this Standard. China Nonferrous Metals Industry Standards and Metrology Institute for Quality. Drafters of this standard. Zhao Ling, Liu Jisong, Huang Fuchun, Chen Fusheng, Ma Xiaofeng, to Lei. This standard replaces the standards previously issued as follows:

--- GB 1774-1988, GB/T 1774-1995. Silver powder

1 Scope

GB/T 1774-2009 is the Chinese national standard on superfine silver 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 5 January 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2009. Classification: ICS 77.150.99, CCS H68. 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 standard specifies the requirements for ultra-fine silver, test methods, inspection rules and signs, packaging, transportation, storage, and purchase order (or contract) within Tolerance and so on. This standard applies to the electronics industry with ultra-fine silver.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1773-2008 silver flake Determination of

GB/T 5060 metal powder bulk density Part II. Scott capacity meter method Determination of

GB/T 5162 metal powder tap density

GB/T 15555.2 solid waste copper, zinc, lead, and cadmium - Atomic absorption spectrophotometry

GB/T 18035 method of precious metals and their alloys

GB/T 19077.1 laser diffraction particle size analysis

3.1 Grades and marks

3.1.1 Depending on the silver powder particle size (D50) size, the product is divided into three categories, respectively, according to GB/T 18035 the grade. PAg- G0.2, PAg-G2.0, PAg-G7.0.

3.1.2 Particle size distribution marked. D90 represents the cumulative 90% particle diameter at, D50 represents the cumulative particle diameter at 50%, D10 represents tired Plot in the particle size at 10%.

3.2 Chemical composition Chemical composition of fine silver powder shall meet the requirements in Table 1. Table 1% Ag content (Mass fraction) not less than Impurity content (mass fraction), not more than Total Cu Ni Fe Pb Al Sb Bi Cd impurity Pt Pd Au Rh Ir 0.0020.0020.0020.0010.001 99.95 0.01 0.05 0.005 0.01 0.0010.0050.0010.0020.001

Note. The silver content of impurities in the table minus one hundred percent real margin for the total.

3.3 The specific surface area, particle size, bulk density, tap density Silver powder specific surface area, particle size, bulk density, tap density specified in Table 2. If the demand side, there are special requirements for ultra-fine silver, for Both sides need to be agreed.