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

GB/T 1775-2025

Replacing GB/T 1775-2009

Superfine gold powder

超细金粉

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Standardization Administration of the PRC**

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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 1775-2009 "Ultrafine Gold Powder". Compared with GB/T 1775-2009, the only changes are structural adjustments and editorial modifications. In addition, the main technological changes are as follows:

- a) The raw material requirements for the product have been removed (see 3.1 in the 2009 edition);
- b) Added product categories (see 4.1);
- c) Added product markings (see 4.2);
- d) Product grades PAuH-2.0, PAuH-4.5, and PAuL-5.2 and their technical requirements have been added (see 5.2);
- e) The types and limits of impurity elements in the chemical composition of ultrafine gold powder have been modified (see 5.2, 3.3 of the 2009 edition);
- f) The specifications for burn loss rate, specific surface area, loose packing density, tapped density, and average particle size of PAu-3.0 products have been changed (see 5.2, 2009). (3.4-3.6 of the 2008 edition)
- g) Product inspection items have been changed (see 7.3,

1 Scope

GB/T 1775-2025 is the Chinese national standard covering gold powder for pastes and inks

- the assay and the impurity limits, the particle size distribution and the specific surface area, the tap density and the morphology, which is what governs the sintering and the conductivity of the printed film. Issued on 5 October 2025, it has been in force since 1 May 2026, replacing GB/T 1775-2009.

This document specifies the classification and marking, technical requirements, testing methods, testing rules, labeling, packaging, transportation, storage, and accompanying procedures for ultrafine gold powder. Line documents and order contents. This document applies to ultrafine gold powder for electronic pastes.

2 Scott method

GB/T 1774-2009 Ultrafine Silver Powder

GB/T 5162 Determination of tap density of metal powders

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 11066 (all parts) - Chemical Analysis Methods for Gold

GB/T 19077 Particle size analysis by laser diffraction

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Gold powder with a particle size of micron or submicron in the form of spherical or near-spherical particles.

4 Classification and Labeling

4.1 Product Classification Depending on the application, the products are divided into PAuH-2.0, PAuH-3.0, and PAuH-4.5, which are used for preparing high-temperature sintering electronic pastes. There are two categories. PAuL-5.2, which is used to prepare low-temperature curing electronic pastes.

4.2 Product Marking The product marking consists of four parts. this document number, gold powder marking, product classification marking, and upper limit of average particle size.