

ICS 77.150.99

CCS H68



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

GB/T 1776-2025

Replacing GB/T 1776-2009

Superfine platinum powder

超细铂粉

Issued on: August 29, 2025

Implemented on: March 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Classification and Labeling

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 1776-2009 "Ultrafine Platinum Powder". Compared with GB/T 1776-2009, the only changes are structural adjustments and editorial modifications. In addition, the main technological changes are as follows:

- a) Added terms and definitions for ultrafine platinum powder (see 3.1);
- b) The product classification for ultrafine platinum powder has been expanded, adding grades PPt-1.0 and PPt-6.0 (see 4.1);
- c) Product markings for ultrafine platinum powder have been added (see 4.2);
- d) The impurity elements "Ru, Mn, Cr, Mg, Zn, Bi" and their requirements were added to the chemical composition table, and the impurity information in the chemical composition table was modified. Requirements for elements "Pd, Rh, Ir, Au, Al, Si" (see 5.1, 3.2 of the 2009 edition);
- e) Added specific surface area range, loose density range, tapped density range, and particle size distribution (D10, D50) for PPt-1.0 and PPt-6.0. The specific surface area range for PPT-3.0 (D90) has been changed from " $3.5 \text{ m}^2/\text{g} \sim 7 \text{ m}^2/\text{g}$ " to... " $4.0 \text{ m}^2/\text{g} \sim 15.0 \text{ m}^2/\text{g}$ " (see 5.2, 3.2 in the 2009 edition);
- f) Technical requirements and test methods for the moisture content and burn-off rate of ultrafine platinum powder have been added (see 5.2, 6.6, and 6.7);

g) The sampling method and sample size for the ultrafine platinum powder test have been changed (see 7.4,

1 Scope

GB/T 1776-2025 is the Chinese national standard on superfine platinum 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 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2026. 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.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Pictorial Symbols for Packaging and Storage

GB/T 1419-2015 Platinum Sponge

GB/T 1479.1 Determination of the apparent density of metallic powders - Part

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 19077 Particle size analysis by laser diffraction YS/T 361 Emission Spectroscopic Analysis of Impurity Elements in Pure Platinum

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Platinum 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 Based on the different average particle size (D50), and according to the upper limit of its average particle size (D50), it is divided into three types. PPt-1.0, PPt-3.0, and PPt-6.0. Brand name.

chinastandards.org · PREVIEW