

Technical Data Sheet

Barium Titanate Powder

Product ID: 56220800PD001 - 56220800PD002

Formular: BaTiO₃

Molecular weight: 233.19 g/mol

CAS No.: 12047-27-7

EINECS No.: 234-975-0

Color: White

Description: Our barium titanate powder has a typical purity of ≥99.5% and is available in both micron and nano sizes, with particle sizes customizable according to customer requirements. It features a high dielectric constant, good insulation, and stable thermal properties.

Application: Electronic ceramics, capacitors, piezoelectric components, and temperature sensors.

Product

Image:



1. Physical Properties

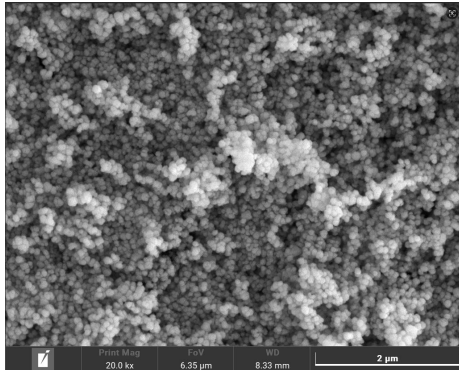
Product ID	Formular	Particle Size
56220800PD001	BaTiO ₃ (99.5%)	D50 < 5µm
56220800PD002	BaTiO ₃ (99.5%)	< 200nm
56220800PDDZ	BaTiO ₃ (99.5%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (wt%)			
	Fe	Sr	Na	K
99.5%	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. SEM Image



Barium titanate powder 100 nm

4. Packaging

Bottle/Bag.

Double vacuum packed.

5. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

6. Handling and Storage

When using, wear protective equipment and operate in a well-ventilated area to avoid inhalation of dust or skin contact.

Store in a sealed container in a dry, cool, and well-ventilated place, away from moisture and high temperatures.

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