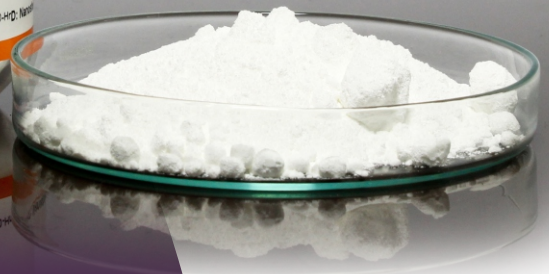
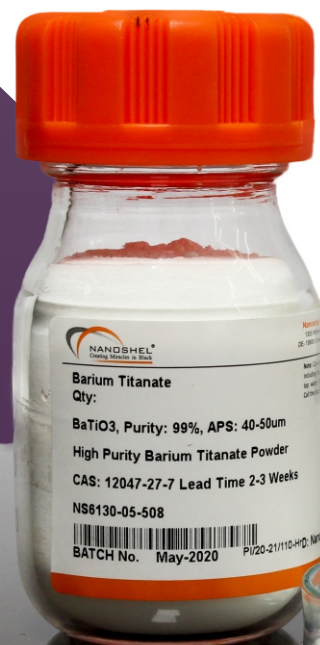


# BARIUM TITANATE POWDER

Stock No: NS6130-05-508



Follow us:



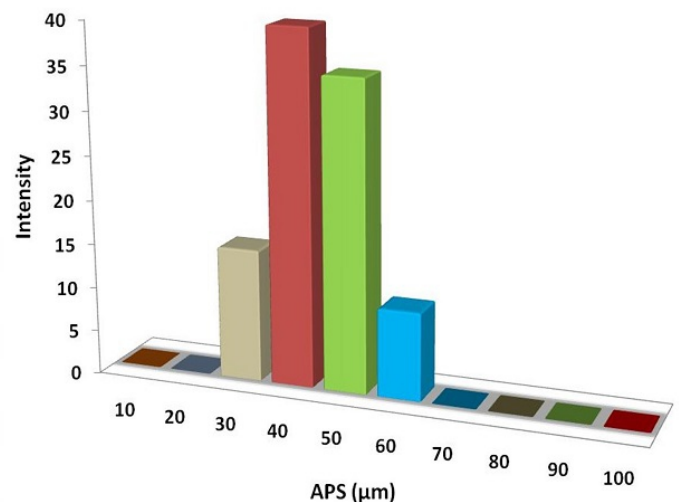
| [www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)

## Barium Titanate Powder

Barium titanate powder can be used in nonlinear optics as it has high beam-coupling gain and can operate at near-infrared and visible wavelengths. Barium titanate can be doped with certain amounts of other metals like yttrium, scandium and samarium to make it a semiconducting material. As a semiconductor, Barium titanate shows PTCR properties in poly crystalline form. At the Curie temperature, barium titanate undergoes a phase change from tetrahedral to cubic. It has also been reported that single crystals of barium titanate exhibit negative temperature co-efficient of resistivity (NTCR) properties. Barium titanate also exhibits ferroelectric properties and is an excellent photorefractive material.

### Quick Facts

Product	: Barium Titanate Powder
Color	: White Powder
Stock No	: NS6130-05-508
CAS	: 12047-27-7
Purity	: 99%
APS	: 40-50 $\mu$ m
Other Metal	: 8500ppm



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
BaTiO <sub>3</sub>	233.192 g/mol	6.02g/cm <sub>3</sub>	1625 °C

## Applications

- Ceramics
- Lithium ion batteries
- Enamels

ISO 9001:2015  
CERTIFIED COMPANY



**INTELLIGENT MATERIALS PVT LTD**  
Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

**NANOSHEL UK LIMITED**  
Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

**NANOSHEL LLC**  
3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911

