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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 polycrystalline form. Also at Curie temperature, Barium titanate shows an increased resistivity which can vary in magnitude. In this temperature, Barium titanate may change its phase from tetrahedral to cubic.

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BaTiO3

APPLICATIONS

- ✓ Electrical insulator
- ✓ In capacitors as a dielectric ceramic material
- ✓ Piezoelectric material in microphones
- ✓ Photorefractive applications

SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Formula: BaTiO3
- ✓ Molecular Weight: 233.192 g/mol
- ✓ Color: White to Off White
- ✓ Density: 5.8 g/cm³
- ✓ Melting Point: 1625 °C
- ✓ Dielectric Constant: 6200 to 7000 (at Curie point)

All types of particles size are available in micro and nano range.

CATALOGUE NO.

- **NS6130-02-221**
- **NS6130-02-222**
- **NS6130-02-223**
- **NS6130-02-224**

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