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: 40-50um
- Other Metal: 8500ppm

ISO 9001:2015
CERTIFIED COMPANY
ISO: 13485:2016/202ICE0588BM
CE: 20ZICE4069C

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Barium Titanate Powder

Applications
✓ Automotive water pump seals
✓ Bearings
✓ Pump components
✓ Extrusion dies

Packing Sizes Available
25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Technical Specification

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiC</td>
<td>40.10 g/mol</td>
<td>3.2 g/cm³</td>
<td>2700 °C</td>
</tr>
</tbody>
</table>

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