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Barium Titanate (BaTiO₃) Nanoparticles/Nanopowder (BaTiO₃ > 99.9%, 15-25 nm, Cubic)

Purity: 99.9%

Average particle size (XRD): 15,6 nm

Average particle size (BET): 38 nm

Average particle size (TEM): 26 nm

Surface area: 25,6 m²/g (BET)

Average pore diameter 18,7 nm

Color: white

Morphology: near spherical

Crystallinity: Cubic (XRD)

True Density: 5,85 g/cm³

Bulk Density: 1,20 g/cm³

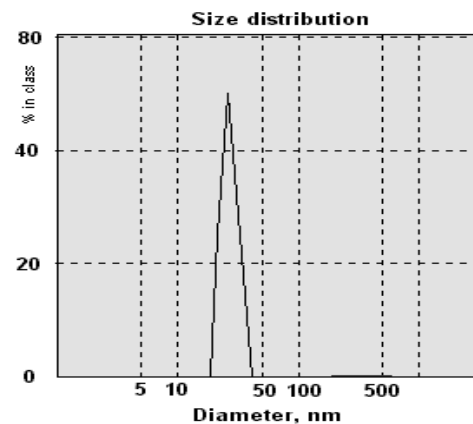
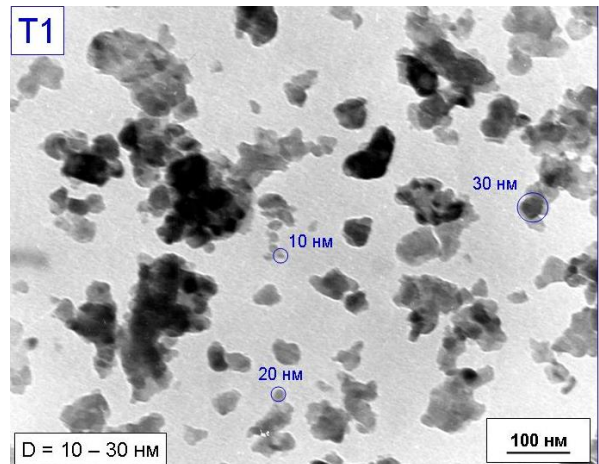
Tap Density: 1,65 g/cm³

Angle of natural slip: 40°

Spatula angle: 39°

Moisture (at 105°C, 2h): 0,43 wt%

Ignition Loss (at 1100°C, 1h): 1,5 wt%



Barium Titanate Nanopowder (BaTiO₃, Cubic) Certificate of Analysis - wt%

Na	Ca	Fe	K	Mg	Sr
0,001	0,001	0,001	0,001	0,001	0,016
Ba/Ti		1,007			

Application:

Barium titanate are widely used in industry as piezoelectric, mainly in the form of ferroelectric and piezoelectric ceramics. Technical Field of its application are: micro capacitors, dielectric amplifiers, memory cells, High-density optical data storage, nonlinear optics, optical data processing devices, dynamic holography devices, piezoelectric and pyroelectric transducers, thermistors, microphones, heaters, device of conversion and modulation of laser radiation.

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