Ferroelectric material

Barium Titanate

OVERVIEW

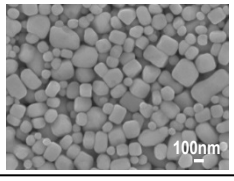
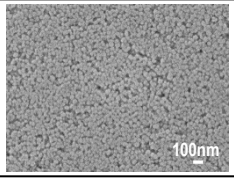
TODA KOGYO' s barium titanate, characterized by fine and sharp particle size distribution, is a ferroelectric material produced by our wet synthesis technology. It is suitable as a raw material for multilayer ceramic capacitor, etc., for its high dielectric constant characteristics.

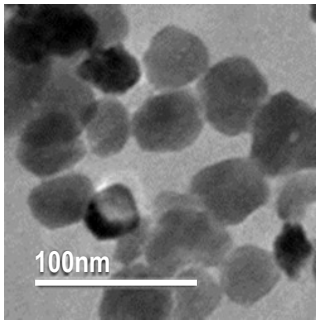
FEATURES

Various particle sizes to meet your needs	It is available to supply the wide variety of primary particle size from 10 to 150nm.
Uniform particle size distribution and particle shape	It has very sharp particle size distribution and small variation in particle shape.
High dispersibility	The slurry of fine particles can be produced due to the excellent dispersibility.

CHARACTERISTICS

【Powder products】

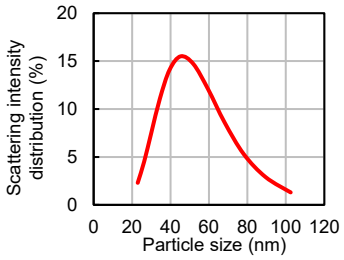
Grade	High dielectric grade	High dispersibility grade
Particle size	80～150nm	30～100nm
Characteristic	High dielectric constant	Narrow particle size distribution
SEM image		



【TEM of high dispersibility grade】

The characteristics of slurry product

- ✓ Containing fine particles of barium titanate.
- ✓ Possible to design a dispersion according to a desired solvent.
- ✓ Possible to prepare highly concentrated dispersion (~60wt%).
- ✓ Narrow particle size distribution.



【Typical Particle Size Distribution of Slurry】

APPLICATIONS

- Materials for MLCC (For dielectric layer, Co-material of electrode layer)
- High performance resin filler
  (High dielectric constant, Transmittance and refractive index)
- Materials for piezoelectric devices

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Ver. Jul. 2024