Ferroelectric material

Barium Titanate

FEATURES

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.

CHARACTERISTICS

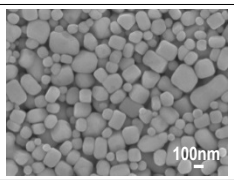
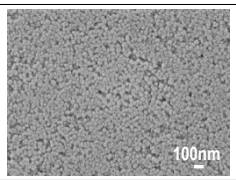
1 Various particle sizes to meet your needs
It is available to supply the wide variety of primary particle size from 10 to 150nm.

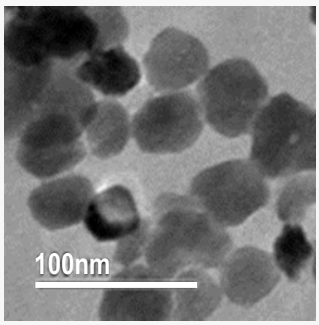
2 Uniform particle size distribution and particle shape
It has very sharp particle size distribution and small variation in particle shape.

3 High dispersibility
The slurry of fine particles can be produced due to the excellent dispersibility.

SPECIFICATIONS

【Powder Products】

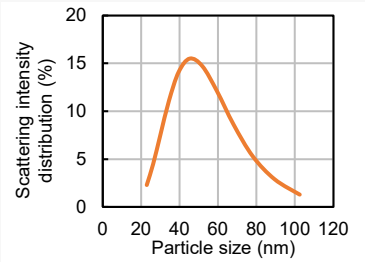
Grade	High dielectric grade	High dispersibility grade
Particle size	80～150nm	30～100nm
Characteristic	High dielectric constant	Narrow particle size distribution
SEM image		



【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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