SkySpring Nanomaterials, Inc.

Barium Titanate Nanoparticles/Nano powder (BaTiO3, 99.9%, 50~70nm, Cubic)

Product #: 1400GC
Barium Titanate Nanoparticles/Nanopowder (BaTiO3, 99.9%, 50~70nm, Cubic)

Product Properties

Barium Titanate ($BaTiO_3$, Cubic, Nanopowder)
BaO/TiO_2: 0.998 - 1.002
BaTiO3 nano powder Purity: 99.9%
BaTiO3 nano powder APS: 50~70nm
BaTiO3 nano powder SSA: 13~17 m^2/g
BaTiO3 nano powder Color: white
BaTiO3 nano powder Morphology: spherical
BaTiO3 nano powder True density: 5.85 g/cm^3

Barium Titanate Nanoparticles General Description

A white nanopowder composed of cubic barium titanate particles with a diameter of approximately 100nm, this material's unique optical and electric properties at nano scales makes it crucial to a number of applications. It's also the subject of extensive research in fields including data storage, ceramics, lasers, micro-capacitors, and countless others. To find out more about barium titanate nanoparticles, including material specifications, handling, and applications, you can contact SSNano directly.

Barium Titanate Nanoparticles Nanopowder Applications

- Data storage. As is the case for many nanomaterials with unique optical and electric properties, barium titanate is considered a material with a high potential for high-density optical data storage.
- Dynamic holography. Due to unique traits making barium titanate particles ideal for the production of certain mirrors and lasers, the material is anticipated to play a key role in the production of practical applications of dynamic holography in the future.
- Ceramics. Several ceramic composites utilize barium titanate nanopowder for its unique properties, including various ferroelectric ceramics and semiconductive ceramics. It's also of value in producing ceramic capacitors.
- Computing. These nanoparticles offer themselves to a number of exciting cutting-edge computing applications, including optical computing, on-chip programming, pattern recognition, optical image processing, and more.
- Electronics: Many intriguing avenues of research involve the unique traits exhibited by barium titanate at nanoparticle scales. Applications include piezoelectric devices, micro-capacitors, pyroelectric sensors, varistors, dielectric amplifiers, and assorted electro-optic devices.

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