Technical Information

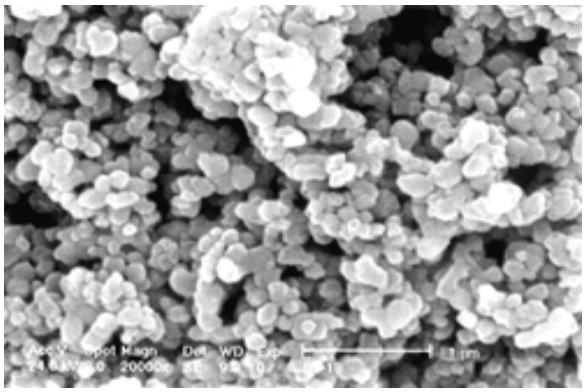
Designation: Barium Titanate **Part No ： BT-B1**

Molecular formula: $BaTiO_3$ **Molecular weight:** 233. 21

- **Physical character：**

1、Particle size：D50:0.5~1.0（μm）

2、Particle decentralization:×20000



SEM of $BaTiO_3$

3、Surface area：（m^2/g）, < **1.0-3.0** **4、Ba/Ti ratio：** **1.000±0.005**

5、Loss on ignition：（800℃/2hr）,<% **0.20** **6、Phase：** **Tetragonal**

Chemical character：

1、Main content：$BaTiO_3$ %, ≥ **99.7**

2、Impurity

Impurity analysis	Content (<wt%)
CaO	0.005
Al_2O_3	0.003
Fe_2O_3	0.002
K_2O	0.005
Na_2O	0.005
CuO	0.001
SiO_2	0.003
SrO	0.002
MgO	0.002

Technical Information

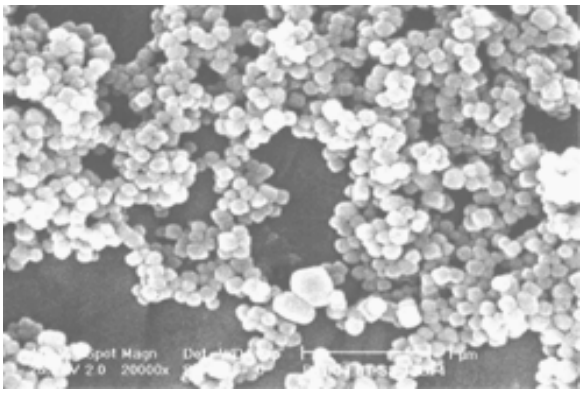
Designation: Barium titanate **Part No ： BT-B2**

Molecular formula: $BaTiO_3$ **Molecular weight:** 233. 21

- **Physical character：**

1、Particle size，D_{50}：0.5~1.0（μm）

2、Particle decentralization:×20000



SEM of $BaTiO_3$

3、Surface area：（m^2/g），> **4.0-6.0** **4、Ba/Ti ratio：** **1.000±0.005**

5、Loss on ignition：（800℃/2hr），<% **0.30** **6、Phase：** **Cubic**

- **Chemical character：**

1、Main content：$BaTiO_3$ %, ≥ **99.7**

2、Impurity

Impurity analysis	Content (<wt%)
CaO	0.003
Al_2O_3	0.002
Fe_2O_3	0.005
K_2O	0.005
Na_2O	0.001
CuO	0.003
SiO_2	0.002
SrO	0.002
MgO	0.005

Technical Information

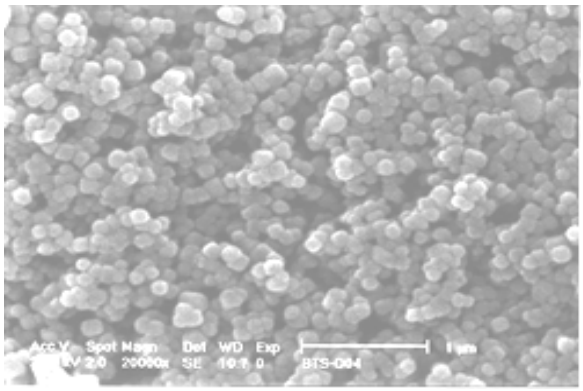
Designation: Barium titanate **Part No ： BTS-A03**

Molecular formula: $BaTiO_3$ **Molecular weight: 233. 21**

- **Physical character：**

3、Particle size：D50, 0.1~0.3 (μm)

4、Particle decentralization:×20000



SEM of $BaTiO_3$

3、Surface area：（m^2/g）, 10.0~13.0 **4、Ba/Ti ratio： 1.000±0.005**

5、Loss on ignition：（800 ℃ /2hr）,<% 0.30 **6、Phase： Tetragonal**

- **Chemical character：**

1、Main content：$BaTiO_3$ % , ≥ 99.7

2、Impurity:

Impurity analysis	Content (<wt%)
CaO	0.003
Al_2O_3	0.002
Fe_2O_3	0.005
K_2O	0.005
Na_2O	0.001
CuO	0.003
SiO_2	0.002
SrO	0.002
MgO	0.005

Technical Information

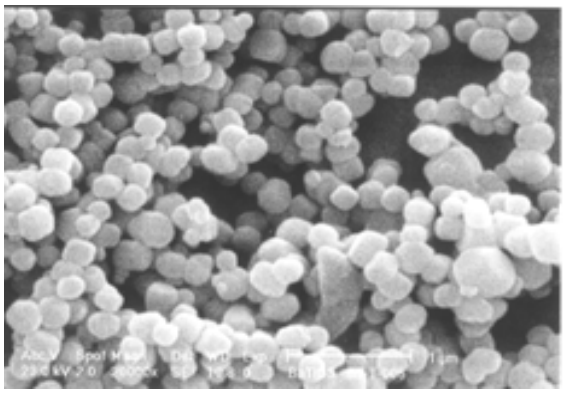
Designation: Barium titanate **Part No ： BTS-A05**

Molecular formula: $BaTiO_3$ **Molecular weight: 233. 21**

- **Physical character：**

5、Particle size：D50, 0.5~1.0（μm）

6、Particle decentralization:×20000



SEM of $BaTiO_3$

3、Surface area：（m^2/g）, 3.0~5.0 **4、Ba/Ti ratio： 1.000±0.005**

5、Loss on ignition：（800℃/2hr）,<% 0.20 **6、Phase： Tetragonal**

- **Chemical character：**

1、Main content：$BaTiO_3$ %,≥ 99.7

2、Impurity:

Impurity analysis	Content (<wt%)
CaO	0.003
Al_2O_3	0.002
Fe_2O_3	0.005
K_2O	0.005
Na_2O	0.001
CuO	0.003
SiO_2	0.002
SrO	0.002
MgO	0.005