

# Barium Titanate $BaTiO_3$

## Sputtering Targets



**Kurt J. Lesker**<sup>®</sup>  
Company

**MATERIALS**<sup>™</sup>  
DIVISION

### Applications

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- Ferroelectric
- Gate Dielectric
- For CMOS
- Non-volatile Memory
- Thin film capacitor

### Features

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- High purity
- Custom Sizes Available

### Process

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- Manufacturing
  - Cold pressed
  - Sintered
  - Elastomer bonded to backing plate
- Cleaning and final packaging
  - Cleaned for use in vacuum
  - Protection from environmental contaminants
  - Protection during shipment

### Options

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- 99.9% ex Strontium Minimum Purity
- Up to 12" Diameter Targets Available
- Planar Tiles Up to 8" X 5" for Larger Target Configurations

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## Specifications

### Typical Analysis - 99.9% (3N) Purity

Metallic Impurities, ppm by weight

Al	As	B	Bi	Ca	Cl	Co	Cr	Cu	Fe	Hf	K	Mg
<50	<5	<10	<5	<200	<20	<50	<10	<5	<10	<15	<100	<20

Mn	N	Na	Ni	P	Pb	Pd	S	Sb	Se	Si	Sn	Sr
<300	<40	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5

Theoretical Density	5.999 g/cc
Typical Density	4.97 g/cc
Sputter	RF
Max Power Density (Watts/Square Inch)	20
Melting Point	1,625°C
Appearance	White/Beige/Grey
Z Ratio	0.464
Particle Size	D50

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