



Product Specification Sheet EPS-8000 Rev. B

Raw Beryllium Oxide Powder

1. SCOPE

This specification defines a uniform, high purity beryllium oxide powder which will sinter to a high density when formed by conventional ceramic techniques.

2. CHEMICAL COMPOSITION

	BeO Basis (Maximum)
2.1 Sulfur	0.15%
2.2 Aluminum	100 ppm
Calcium	50
Iron	100
Magnesium	30
Silicon	100
Sodium	50
*2.3 Boron	3 ppm
Cadmium	2
Chromium	10
Cobalt	3
Copper	10
Lead	5
Lithium	3
Manganese	5
Molybdenum	5
Nickel	15
Potassium	25
Silver	3
Zinc	20

* These elements determined and reported only upon request.
- Concentrations are by weight.



3. PHYSICAL PROPERTIES:

	Typical	Maximum
3.1 Loss On Drying (% By Weight)	0.3	1.0
3.2 Loss on Ignition after Drying (% By Weight)	0.5	1.0

3.3 Powder Density

Bulk Density g/cc	.2
Tap Density g/cc	.4

3.4 Typical Particle Size Distribution

Finer Than (Micron)	Maximum (%)
20	99
14	98
8	90
4	65
1	25

3.5 Surface Area - m²/gram

Typical	Range
10.1	8.2 – 12.7

4. TEST PROCEDURES:

Available upon request.