

Raw Beryllium Oxide Powder

EPS-8000 Rev A.

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)

2.1	Sulfur %	0.15
2.2	Aluminum ppm	100
	Calcium	50
	Iron	100
	Magnesium	30
	Silicon	100
	Sodium	50
*2.3	Boron	3
	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	2	
	Bulk Density g/cc	4	
	Tap Density g/cc		

3.4 Typical Particle Size Distribution:

Finer Than Micron	Cumulative %
20	99
14	98
8	90
4	65
1	25

		Typical	Range
3.5	Surface Area - m ² /gram	10.1	8.2 - 12.7

4. TEST PROCEDURES:

Available upon request.

www.AmericanBeryllia.com

American Beryllia Inc
16 First Avenue
Haskell NJ 07420
973 248-8080
973 248-8013 fax