Gordon Glass High Grade Cerium Oxide Powder

A premium high purity cerium oxide polishing compound designed for the flat glass industries. Recommended for a variety of glass polishing applications, including high polish edgers and bevellers.

The Gordon Glass High Grade Cerium Oxide powder has a tightly controlled particle size distribution. It can produce high quality scratch-free surfaces with very low levels of surface roughness.

- Engineered to produce fast stock removal and excellent surface finish.
- Exhibits exceptional suspension quality and does not settle hard.
- Easily cleaned from machinery and finished glass due to its exceptional cleanability.

Product Information

Formula CeO2

Appearance Pink or Red Brown Powder

Typical Analysis

Specifications CeO2 99.7 % Loss on ignition at 1.00 % max

1,000°C

Applications

They are suitable for recirculatory slurry systems and is compatible with all standard polishing pad interfaces.

Recommended Slurry Temperature

 $25^{\circ} \text{C} - 40^{\circ} \text{C} (77^{\circ} \text{F} - 104^{\circ} \text{F})$

Composition

La2O3	0.019 %
Nd2O3	0.004 %
Sm2O3	< 0.001 %
Y2O3	0.003 %

Non-Rare Earths

Fe2O3	0.002 %
SiO2	0.007 %
CaO	< 0.005 %
Na2O	0.15 %
SrO	< 0.001 %

Physical Properties

Melting Point	2500∘C
Specific Gravity	7.3 g/cm3

Composition REO

Content

60 - 75%

Average Particle Size 2.6 - 2.9 Microns

pН 6.5 - 7.5

Dilution and Compatability

The cerium oxide can be used in concentration between 2 and 10 Baume. For shape polishing and straight line beveling, concentration of 2° to 5° Baume is recommended.

Solubility Insoluble in water, moderately soluble in strong mineral acids.

Stability Slightly hygroscopic, will absorb small amounts of moisture and CO2 from the atmosphere.

