



**Highlights**

- Smallest, most consistent cerium particles in the world
- Perfect abrasive for “superpolishing” of optical materials
- Exceeds semiconductor standards for STI CMP processes
- Compatible with polishing pitch or pads

Cerium oxide slurry

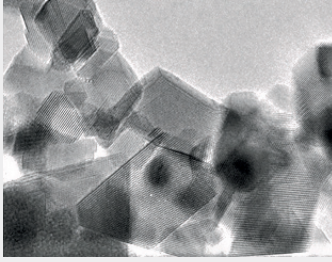
**ULTRA-SOL® C100**

Designed to meet the demanding requirements of Precision Polishing applications, including super-polishing. Ultra-Sol C100 features a tightly distributed nano-cerium oxide abrasive. Leveraging decades of micronizing experience in the diamond world, Pureon is able to control the C100 with high precision. The product is designed for super polish applications where roughness values below one angstroms are required with exceptionally low scratch-dig specifications. This slurry is commonly paired with pitch pads or poromerics. Manufactured under the strict requirements of ISO 9001, lot-to-lot consistency is ensured with the use of SQC / SPC methods and automated process controls.

**Typical applications**

Fused silica, Glass, Zerodur

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® C100	Cerium oxide	0.075	8.5	11.5	1.071
ULTRA-SOL® 1001	Cerium oxide	1.15	9.7	15.0	1.14
ULTRA-SOL® 1000HP	Cerium oxide	0.95	8.5	10.0	1.05
ULTRA-SOL® CE-6750	Cerium oxide	0.95	8.0	20.0	-
ULTRA-SOL® CE-6752	Cerium oxide	0.95	8.0	20.0	-
ULTRA-SOL® CE-6755	Cerium oxide	0.95	8.0	50.0	-
ULTRA-SOL® OPTIQ PRO	Cerium oxide	0.45	8.2	45.0	1.64



C100 features true cerium oxide nanoparticles, manufactured via Pureon's extensive micronizing experience.



Pureon offers a wide range of customized solutions. Get in touch with us.

**Product specifications**

Base material ..... Cerium oxide  
Shelf life ..... 12 months

**Order information**

Packing ..... 1 gal carboys. Other sizes available upon request.  
Unit of measure ..... Gallon [gal]

**Application recommendations**

Handling ..... This material is a safe, aqueous based slurry. To avoid skin or eye irritation, however, handlers should use appropriate personal protective equipment including: rubber gloves, protective clothing, and eye protection. Follow all MSDS, Safety Data Sheet, and label precautions when handling this slurry. Also follow all appropriate industrial safety and hygiene practices when handling or using this product.

This slurry is designed as a ready to use product directly from the container. If the slurry is to be used in a diluted form, Pureon recommends using only high-quality deionized water (> 18 M ohm) for the dilution. The product should be mixed periodically (10 to 20 minutes per day) by recirculation or mechanical stirring to ensure that the particles are uniformly suspended. To avoid possible scratching issues, storage and re-use of on-site diluted slurry is not recommended without proper mixing and filtration.

Due to the unique formulation of this slurry, it is recommended that the user not adjust the pH. If a different pH is required, please contact your Pureon Applications Engineer for assistance with your specific process need.

Storage ..... It is recommended that products be stored up to the expiration date at temperatures between 4 °C and 33 °C (40 °F and 90 °F). Products can be stored if kept above freezing (0 °C or 32 °F), and kept below 38 °C (100 °F) if prolonged exposure at temperatures at either extreme are avoided. Storage outside of the recommended conditions may result in irreversible product damage. In the event of exposure outside of the recommended conditions, please contact your Pureon representative for recommendations. In all cases the products should be allowed to return to room temperature prior to use.

Disposal ..... Dispose of in accordance with all applicable local regulations.

**Contact**

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