



Highlights

- Small particle size and tight distribution result in excellent surface quality, removal rate, and repeatability
- Suspension package facilitates uniform delivery of abrasive to polishing workpiece and prevents settling in the tools and lines
- Designed to be easy to clean off parts and tools, resulting in less rework and higher yields
- Compatible with polishing pads, pitch, CNC tools, and spindle polishers

Cerium oxide slurry

ULTRA-SOL® OPTIQ PRO

High-purity cerium oxide slurry for optical polishing

ULTRA-SOL® OPTIQ PRO is a high-purity cerium oxide slurry designed for the precision polishing of borosilicate glass, fused silica, glass ceramics, and other optical materials. OPTIQ PRO utilizes an enhanced manufacturing technique and features a small, tightly distributed cerium oxide particle in a unique suspension that minimizes settling and facilitates cleaning. In addition, the slurry is highly concentrated to provide maximum flexibility through on-site dilution. It has quickly proven itself to be a superior cerium oxide polish to many existing products on the market.

ULTRA-SOL® OPTIQ PRO's process performance exceeds industry specifications for sleek, scratch / dig, surface finish, and elimination of sub-surface damage on precision glass workpieces. The unique chemistry allows for uniform and permanent suspension of the abrasive, which provides consistent and repeatable superior surface finishes, and ease of use in production environments.

Applications

Fused silica, glass, zerodur

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
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-6755	Cerium oxide	0,95	8,0	50,0	–
ULTRA-SOL® OPTIQ PRO	Cerium oxide	0,45	8,2	45,0	1,64



ULTRA-SOL® OPTIQ PRO final polishing slurry achieves surface finishes under 5 Å on many different optical materials.



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 jugs.
Other sizes available upon request.
Unit of measure Gallon [gal]

Instructions

Safety To avoid skin or eye irritation, use appropriate personal protective equipment according to MSDS. Follow all MSDS, Safety datasheets, label precautions and industrial safety and hygiene practices when handling or using this product.

Homogenization For consistent performance, ensure that the suspension is completely homogenized prior to use. Suspensions can separate if stored over extended periods of time and if exposed to variable temperatures.

Dilution 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, use 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, pH adjustment is not recommended. For a different pH, please contact your Pureon representative.

Storage Recommended ... 4 °C – 33 °C / 40 °F and 90 °F
Short term 0 °C – 38 °C / 32 °F and 100 °F

Products should be allowed to return to room temperature prior to use. Storage outside the recommended conditions may result in irreversible product damage.

Disposal Dispose of in accordance with all applicable local regulations.

Contact

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