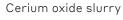
PUREON

Lapping and polishing slurries



ULTRA-SOL® 1000

Case Mars .

Precision cerium oxide featuring high purity and tight particle size distribution.



Pureon ready-to-use slurries are available in customer-tailored formulations in a wide range of viscosities.

Large-particle cerium oxide slurry for optical polishing

ULTRA-SOL® 1000 is an exceptionally uniform cerium oxide dispersion used extensively for general purpose polishing of glass, quartz, fused silica, and other silica-based optical materials. The alkaline (pH 9) slurry is formulated to provide chemically enhanced polishing, high throughput, and excellent surface finish.

ULTRA-SOL® 1000 performance exceeds industry specifications for sleek, scratch / dig, and surface finish. The controlled particle distribution helps to eliminate sub-surface damage caused by errant large particles. The unique chemistry allows for a uniform and permanent suspension of the abrasive, which provides consistent and repeatably superior surface finishes. The advanced particle suspension technology in the ULTRA-SOL® 1000 also creates an easy to use slurry in a production environment.

Product specifications

Base material.....Cerium oxide Shelf life.....12 months ApplicationsFused silica, glass, zerodur

Order code	Base material	Particle size [µm]	рН	Solids content [%]	Specific gravity
NANOARC® CE-6450	Cerium oxide	0.03	8.0	18.0	-
ULTRA-SOL [®] 1000	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	Cerium oxide	0.45	8.2	45.0	1.64

Contact

sales@pureon.com www.pureon.com/sales-contacts

Order information

Packing

1 gal jugs, 5 gal pail, and 55 gal drums. Other sizes available upon request.

Unit of measure Gallon [gal]

ULTRA-SOL® 1000 highlights

- Excellent suspension chemistry ensures homogeneous slurry and consistent particle delivery to the system
- Superior quality, control, and consistency
- Customized products available on request
- Short lead-times



Pureon offers a wide range of customized solutions. More information can be found on www.pureon.com/products/ overview

Instructions

Safety

To avoid skin or eye irritation, use appropriate personal protective equipment according to MSDS. Follow all MSDS, Safety datasheet, 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

 Sort 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.

All information is non-binding and provided for information purposes only. Subject to change without notice.