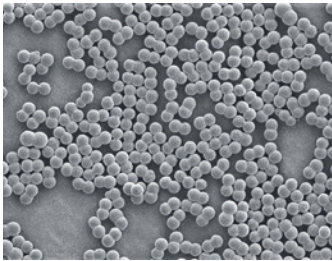


Lapping and polishing slurries



Colloidal silica slurry

ULTRA-SOL® 2EX



Pureon colloidal silica particles feature tight particle size distributions and industry leading lot-to-lot consistency.

Standard colloidal silica slurry for oxide polishing

ULTRA-SOL® 2EX is a high-purity colloidal silica-based slurry specifically formulated for use on devices, oxide layers, and in some optical applications. The slurry is potassium hydroxide stabilized, making it the ideal choice in applications where other stabilizing agents are incompatible with the materials being polished. The enhanced pH and 70 nm colloidal silica particle provide excellent removal rate and a high quality surface finish.

Additionally, contaminants such as metals and chlorides are extremely low, making ULTRA-SOL® 2EX excellent for all applications where low levels of contaminants are required. The unique colloidal silica based formulation of ULTRA-SOL® 2EX performs well in slurry recirculation systems, making it a perfect choice for all types of manufacturing environments.



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

Product specifications

Base materialColloidal silica

Shelf life.....12 months

ApplicationsCalcium fluoride, fused silica, polysilicon, silicon

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® 2EX	Colloidal silica	0.07	11.0	30.5	1.20
ULTRA-SOL® 3EX	Colloidal silica	0.07	7.3	30.0	1.20
ULTRA-SOL® 4A	Colloidal silica	0.03	9.5	30.0	1.20
ULTRA-SOL® 556	Colloidal silica	0.06	8.5	50.0	1.39
ULTRA-SOL® 558	Colloidal silica	0.09	11.9	28.0	1.19
ULTRA-SOL® 7A	Colloidal silica	0.06	10.0	30.0	1.20
ULTRA-SOL® 7H-PH4	Colloidal silica	0.07	4.0	30.0	1.20
ULTRA-SOL® NX88	Colloidal silica	0.13	10.5	16.3	1.10
ULTRA-SOL® NX88H	Colloidal silica	0.13	10.5	26.0	1.18
ULTRA-SOL® S27	Colloidal silica	0.07	9.3	50.0	1.24

Contact

sales@pureon.com

www.pureon.com/sales-contacts

Order information**Packing**

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

Unit of measure

Gallon [gal]

ULTRA-SOL® 2EX highlights

- Semiconductor grade colloidal silica designed for oxide CMP
- Tight particle size distribution
- Potassium stabilized
- Excellent lot-to-lot control and consistency



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

Instructions**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 Mohm) 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.

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