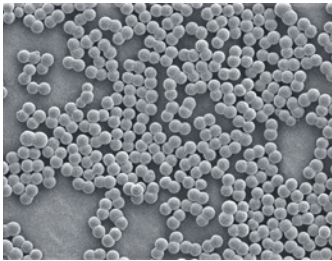


Lapping and polishing slurries



Colloidal silica slurry

ULTRA-SOL® 3EX



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



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

Standard colloidal silica slurry featuring neutral pH for chemically sensitive applications

ULTRA-SOL® 3EX's proprietary, neutral pH formulation makes it a unique and flexible slurry for many applications. The 70 nm particle at 30 % solids provides excellent removal rates and high quality surface finishes, while the neutral pH is ideal for polishing applications where corrosion or static etch rates are of concern. Furthermore, the 3EX is manufactured with high purity raw materials, providing low levels of sodium and other ion contaminants, such as metals and chlorides, in the end product.

The consistent colloidal silica particles in the ULTRA-SOL® 3EX are easily dispersed, pumped, and filtered in all types of slurry distribution systems. With its uniform particle size distribution, neutral pH, and robustness in manufacturing environments, ULTRA-SOL® 3EX is an excellent choice for pH sensitive environments.

Product specifications

Base materialColloidal silica
 Shelf life.....12 months
 ApplicationsCadmium zinc telluride, 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® 3EX highlights

- Semiconductor grade colloidal silica featuring neutral pH
- Tight particle size distribution
- 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.