



**Highlights**

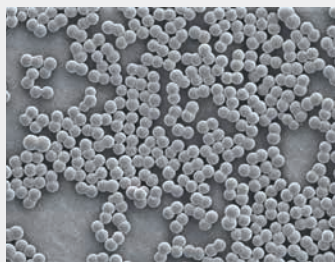
- Highly concentrated final polish for silicon wafers and silicon optical components
- Broad particle distribution promotes balance of both removal rate and surface finish
- Compatible with pads or pitch, on CPs, spindles, batch-process, single-wafer, and CNC tools
- Excellent lot-to-lot control and consistency
- Easier to clean than traditional fumed silica slurries
- Extends filter life, reducing total cost of ownership

Standard colloidal silicas

**ULTRA-SOL®**

ULTRA-SOL® standard colloidal silicas are specifically formulated for use on devices, oxide layers, and in some optical applications. These slurries are potassium hydroxide stabilized, making them the ideal choice in applications where other stabilizing agents are incompatible with the materials being polished.

Order code	Base material	Particle size [µm]	pH	Solids content [%]
ULTRA-SOL® 2EX	Colloidal silica	0,07	11,0	30,5
ULTRA-SOL® 3EX	Colloidal silica	0,07	7,3	30,0
ULTRA-SOL® 4A	Colloidal silica	0,03	9,5	30,0
ULTRA-SOL® 555	Colloidal silica	0,07	10,0	50,1
ULTRA-SOL® 556	Colloidal silica	0,06	8,5	50,0
ULTRA-SOL® 558	Colloidal silica	0,09	11,9	28,0
ULTRA-SOL® 7A	Colloidal silica	0,06	10,0	30,0
ULTRA-SOL® 7AD1	Colloidal silica	0,07	10,0	15,0
ULTRA-SOL® 7H-PH4	Colloidal silica	0,07	4,0	30,0
ULTRA-SOL® 8A	Colloidal silica	0,07	10,6	28,6
ULTRA-SOL® NX88	Colloidal silica	0,13	10,5	16,3
ULTRA-SOL® NX88H	Colloidal silica	0,13	10,5	26,0
ULTRA-SOL® S10	Colloidal silica	0,07	10,0	30,0
ULTRA-SOL® S13	Colloidal silica	0,07	9,0	15,0
ULTRA-SOL® S17	Colloidal silica	0,07	9,3	35,0
ULTRA-SOL® S27	Colloidal silica	0,07	9,3	50,0
ULTRA-SOL® S33V2	Colloidal silica	0,07	9,1	45,5
ULTRA-SOL® S88	Colloidal silica	0,07	10,2	46,2



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.



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

**Product specifications**

Base material ..... Colloidal silica  
 Shelf life ..... 12 months  
 Applications ..... Calcium fluoride, fused silica, polysilicon, silicon

**Order information**

Packing ..... 1 gal jugs, 5 gal jugs, and 55 gal drums.  
 Other sizes available upon request.  
 Unit of measure ..... Gallon [gal]

**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.

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, 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 needs.

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 is 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**

sales@pureon.com  
 www.pureon.com

