



Highlights

- Compatible with pads or pitch, on CPs, spindles, and CNC tools
- Broad particle distribution promotes balance of both removal rate and surface finish
- Staple colloidal silica in optical markets with applicability to wide range of materials and processes
- Non-drying chemistry package significantly slows the drying and crystallization of silica particles on parts and tools, leading to better yields and easier cleanup

Non-drying colloidal silicas

ULTRA-SOL®

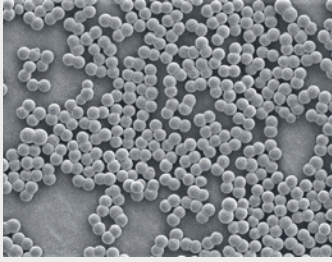
ULTRA-SOL® non-drying colloidal silicas are designed for polishing a wide range of precision opto-electronic materials. A staple in any optician's arsenal, they have been an industry standard for over 20 years. The slurries trademark blue color is now widely recognized by master opticians throughout the industry.

The ULTRA-SOL® non-drying colloidal silicas reduce problems caused by colloidal silica particles drying, caking or crystallizing on exposed surfaces. The end result is superior surface finishes, reduced scratches, along with lowered cleaning costs, material staining, and waste. ULTRA-SOL® non-drying colloidal silicas are capable of producing surfaces of less than 5 Å RMS in a pad process, and less than 1 Å RMS in a pitch process. They perform well in recirculation systems due to the robustness of the primary particle.

Applications

Calcium fluoride, fused silica, polysilicon, silicon

Order code	Base material	Particle size [µm]	pH	Solids content [%]
ULTRA-SOL® 200S	Colloidal Silica	0,03	9,5	24,0
ULTRA-SOL® 300K	Colloidal Silica	0,07	10,6	30,7
ULTRA-SOL® 400KB	Colloidal Silica	0,07	9,5	44,5
ULTRA-SOL® 500S	Colloidal Silica	0,07	9,9	40,5
ULTRA-SOL® 500S2	Colloidal Silica	0,07	9,9	30,7
ULTRA-SOL® 500S3	Colloidal Silica	0,07	9,9	30,7



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

Order information

Packing 1 gal jugs, 5 gal pails, 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 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, 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.

Contact

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