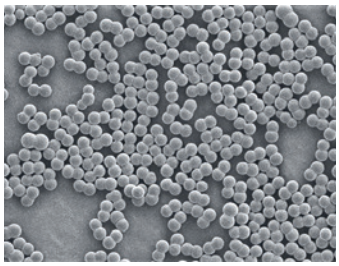
PUREON

Lapping and polishing slurries

Colloidal silica slurry

ULTRA-SOL® 200S



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

Small particle colloidal silica slurry

ULTRA-SOL® 200S is a high-purity colloidal silica slurry in a specially formulated alkaline dispersion. This unique slurry also contains Pureons' proprietary non-drying technology that is proven to reduce problems associated with colloidal silica drying, caking, or crystallizing on exposed surfaces. The small particle size of the 200S is designed for the critical polishing of precision opto-electronic materials such as silicon, gallium arsenide, indium phosphide, germanium, and other IR materials.

The combination of the small colloidal silica particles with the proprietary chemistry technology produces exceptionally low surface finishes in both pad and pitch processes. ULTRA-SOL® 200S performs well in slurry recirculation systems due to the robustness of the particle, and its unique chemistry make it easy to suspend and handle.

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

Product specifications

Base material .....Colloidal silica
Shelf life.....12 months
Applications .....Gallium arsenide, germanium, indium phosphide, silicon

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® 200S	Colloidal Silica	0.03	9.5	24.0	1.20
ULTRA-SOL® 300K	Colloidal Silica	0.07	10.6	30.7	1.21
ULTRA-SOL® 500S	Colloidal Silica	0.07	9.9	40.5	1.32
ULTRA-SOL® 500S2	Colloidal Silica	0.07	9.9	30.7	1.21
ULTRA-SOL® 500S3	Colloidal Silica	0.07	9.9	30.7	1.21

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® 200S highlights

- Unique, small-particle colloidal silica featuring 25 nm particles for optical markets
- Narrow particle size distribution and small average particle size result in excellent control and surface quality
- Non-drying chemistry package significantly slows the drying and crystallization of silica particles on parts and tools, leading to better yields and easier cleanup
- Compatible with pads or pitch, on CPs, spindles, and CNC tools

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 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.