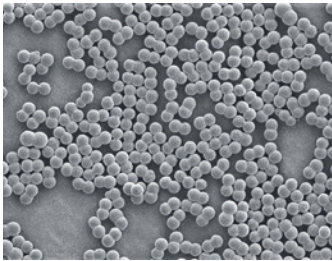


Lapping and polishing slurries



Colloidal silica slurry

**ULTRA-SOL® 4A**



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

**Small particle colloidal silica slurry for optical materials**

ULTRA-SOL® 4A series of colloidal silica polishing compounds is an alkaline group of unique silica particles technologies combined with a sodium hydroxide stabilized chemical enhancement to provide a format for obtaining the best possible surface finishes on a variety of substrate materials.

**Product specifications**

Base material .....Colloidal silica

Shelf life.....12 months

Applications .....Gallium arsenide, germanium, indium phosphide, silicon



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

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
<b>ULTRA-SOL® 4A</b>	Colloidal silica	<b>0.03</b>	<b>9.5</b>	<b>30.0</b>	<b>1.20</b>
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® 4A highlights**

- Unique, small-particle colloidal silica featuring 25 nm particles for optical markets
- Tight particle size distribution and extreme lot-to-lot consistency
- Narrow particle size distribution and small average particle size result in excellent control and surface quality



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