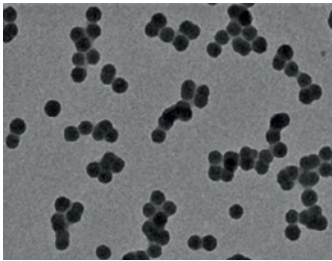


Lapping and polishing slurries



Colloidal silica slurry

**ULTRA-SOL® NX88**



Unique colloidal silica chain morphology features superior rates and finish compared to fumed silica.

**Colloidal silica featuring unique chain morphology, alternative to fumed silica**

Through extensive product development efforts, Pureon has developed the ULTRA-SOL® NX88 family of colloidal silica slurries. ULTRA-SOL® NX88 is based on a proprietary colloidal silica particle manufactured in a highly controlled process. Specifically designed to be a low defectivity alternative to fumed silica slurries, the NX88 features similar planarization efficiency and removal rates to fumed silica slurries, while delivering the low defect performance of colloidal silica. The ULTRA-SOL® NX88 is a ready to use product, and the ULTRA-SOL® NX88H can be diluted on site for maximum process flexibility.

**Product specifications**

Base material .....Colloidal silica  
 Shelf life.....12 months  
 Applications .....Calcium fluoride, fused silica, 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® NX88	Colloidal silica	0.13	10.5	16.3	1.10
ULTRA-SOL® NX88H	Colloidal silica	0.13	10.5	26.0	1.18

**Contact**

sales@pureon.com  
www.pureon.com/sales-contacts

**Order information**

**Packing**

1 gal jugs, 5 gal pail, and 55 gal drums. Other sizes available upon request.

**Unit of measure**

Gallon [gal]

**ULTRA-SOL® NX88 highlights**

- Novel particle morphology provides the planarization efficiency of fumed silica, with the defectivity of colloidal silica
- Chain-like colloidal silica particles result in a much larger aggregate particle size of ~130 nm
- Easier to clean than traditional fumed silica slurries
- Extends filter life, reducing total cost of ownership

**Instructions**

**Safety**

To avoid skin or eye irritation, use appropriate personal protective equipment according to MSDS. Follow all MSDS, Safety datasheet, label precautions and industrial safety and hygiene practices when handling or using this product.

**Homogenization**

For consistent performance, ensure that the suspension is completely homogenized prior to use. Suspensions can separate if stored over extended periods of time and if exposed to variable temperatures.

**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, use 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, pH adjustment is not recommended. For a different pH, please contact your Pureon representative.

**Storage**

Recommended	4 °C – 33 °C / 40 °F and 90 °F
Sort term	0 °C – 38 °C / 32 °F and 100 °F

Products should be allowed to return to room temperature prior to use. Storage outside the recommended conditions may result in irreversible product damage.

**Disposal**

Dispose of in accordance with all applicable local regulations.



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)