

Lapping and polishing slurries



Aluminum oxide slurry

**ULTRA-SOL® 201A280**

**Low surface roughness colloidal alumina slurry**

ULTRA-SOL® 201A280 colloidal alumina slurry is used for polishing a wide variety of materials, including zinc, cadmium, as well as other ferrous alloys. Built on the highly successful 200A chemistry, 201A280 is formulated with a unique blend of particles relative to the standard 200A material to provide a finer surface finish on critical materials. These less aggressive yet highly controlled particles enable incredibly smooth finishes on difficult parts.

ULTRA-SOL® 201A280 is widely used in polishing processes where low surface roughness finishes are required on critical parts. The unique colloidal alumina particles consistently provide sleek free results with a ready-to-use formulation. Like ULTRA-SOL® 200A, the ULTRA-SOL® 201A280's acidic pH allows it's chemical-mechanical action to provide superior, low scatter finishes in a wide variety of applications.



Colloidal alumina suspensions are used with various lapping and polishing pads. We are happy to assist you in finding the best suitable products.



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

**Product specifications**

Base material .....Aluminum oxide  
 Shelf life.....12 months  
 Applications .....Aluminum, cadmium zinc telluride, gallium arsenide, indium phosphide, nickel, spinel, zinc selenide

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® 200A	Aluminum oxide	0.10	4.0	22.2	1.19
ULTRA-SOL® 201A60	Aluminum oxide	0.06	3.5	20.5	1.15
ULTRA-SOL® 201A140	Aluminum oxide	0.14	4.0	20.0	1.14
ULTRA-SOL® 201A280	Aluminum oxide	0.05	4.0	23.5	1.18
ULTRA-SOL® 200AM5	Aluminum oxide	0.80	4.0	21.0	–

**Contact**

sales@pureon.com

www.pureon.com/sales-contacts

**Order information****Packing**

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

**Unit of measure**

Gallon [gal]

## ULTRA-SOL® 201A280 highlights

- Acidic, colloidal alumina dispersion will not settle or hardpack
- Unique matrix of abrasive types provides fast removal rates and good surface finishes
- Features a blend of alpha and gamma alumina abrasives for a balanced approach to rate and finish
- Acidic chemistry designed to soften materials for improved rate and finish



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****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.