

Lapping and polishing slurries



Colloidal Alumina Slurry

ULTRA-SOL® 200AM5

Aluminum oxide slurry for lapping and polishing of various materials

ULTRA-SOL® 200AM5 is a unique colloidal alumina slurry with proven results in polishing a wide variety of materials. Being an industry standard slurry for over fifteen years, ULTRA-SOL® 200AM5 continues to be the process of record in many metals polishing processes, and has been proven to achieve excellent surface finish on epoxy resins and plastics. ULTRA-SOL® 200AM5 has also become one of the most widely used slurries for polishing infrared materials as its unique particle technology provides scratch free surfaces on these challenging materials.

ULTRA-SOL® 200AM5 is an acidic colloidal alumina dispersion, with advanced chemical-mechanical action, that provides superior surface finishes. The proprietary alumina particles provide aggressive removal rates while maintaining superior surface finishes. The acidic pH allows it's chemical-mechanical action to provide superior, low scatter finishes in a wide variety of applications.

Product specifications

Base materialAluminum oxide
 Shelf life.....12 months
 ApplicationsAluminum, cadmium zinc telluride, gallium arsenide, indium phosphide, nickel, spinel, zinc selenide



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.

| 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® 200AM5 highlights

- Acidic, colloidal alumina dispersion will not settle or hardpack
- Compatible with pads, pitch, CNC, or spindles
- Low viscosity, easily pumpable
- Unique matrix of abrasive types provides fast removal rates and good surface finishes
- Features a blend of alpha and gamma aluminum oxide 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

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.