



**Highlights**

- 99.99 % pure aluminum oxide abrasives & suspensions
- Small particle sizes ideal for intermediate and final polishing of many different materials
- Abrasives milled and deagglomerated to create controlled, consistent particle size distribution, reducing scratches
- Unique blend of alpha & gamma phase alumina to yield best balance of rate and finish

Milled alkaline alumina suspensions

**ULTRA-SOL®**

ULTRA-SOL® milled alkaline alumina suspensions are unique permanent suspensions of our industry-standard ULTRA-SOL® aluminum oxide abrasive powders. The alkaline chemistry combined with the high-purity (> 99.99 %) alumina powders provide an optimum solution for critical needs in precision polishing of optical materials, electro-optical materials, laser crystals, ophthalmic lenses, and in metallurgical specimen preparation.

ULTRA-SOL® M5PS, M15PS, M30PS, and M100PS agglomerate-free alumina suspensions are manufactured from our ULTRA-SOL® series of agglomerate-free aluminum oxide powders. They are typically used in critical polishing applications to produce surface finishes approaching a few angstroms. Please note that the data below represents functional particle sizes, which are typically smaller than measured with standard light scattering metrology. These are indicative of how the particle will act under pressure in a polishing application.

**Applications**

Glass, aluminum, nickel

Order code	Base material	Particle size [µm]	pH	Solids content [%]
ULTRA-SOL® M5PS	Aluminum oxide	0,80	8,5	15,0
ULTRA-SOL® M5PS2	Aluminum oxide	0,90	8,5	15,0
ULTRA-SOL® M15PS	Aluminum oxide	0,30	8,0	15,0
ULTRA-SOL® M30PS	Aluminum oxide	0,10	8,5	14,0
ULTRA-SOL® M100PS	Aluminum oxide	0,05	8,5	10,5



ULTRA-SOL® milled alkaline alumina suspensions feature high purity, tightly controlled particles to provide fast removal rates and good surface finishes.



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



Pureon offers a wide range of customized solutions. Get in touch with us.

**Product specifications**

Base material ..... Aluminum oxide  
Shelf life .....  
12 months

**Order information**

Packing .....  
1 gal jugs, 5 gal pail, and 55 gal drums.  
Other sizes available upon request.  
Unit of measure ..... Gallon [gal]

**Instructions**

Safety ..... To avoid skin or eye irritation, use appropriate personal protective equipment according to MSDS. Follow all MSDS Safety datasheets, 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  
Short 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.

**Contact**

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