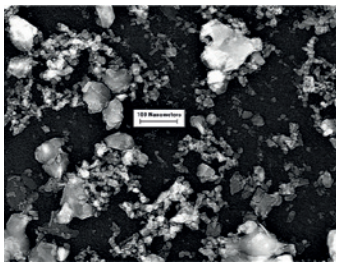
PUREON

Lapping and polishing slurries

Aluminum Oxide Slurry

ULTRA-SOL® A20



A20's alpha-alumina abrasives feature aggressive removal rates and high planarization efficiency.

Aluminum Oxide Slurry Designed for Patterned Media

The ULTRA-SOL® A20 polishing slurry has been formulated to provide aggressive removal rates on different types of metal. This slurry performs well in processes where multiple alloys must be polished on within same layer simultaneously. It has been used successfully on materials containing copper, iron, tungsten, cobalt, nickel, and aluminum oxide. The slurry provides both fine finish and good removal rates for both the metallic alloy and alumina overcoat, while minimizing detrimental effects of corrosion.

The A20 provides high yields, good planarity, and high Ti removal rates. It also minimizes oxide erosion, plug recesses, and dishing. The ULTRA-SOL® A20 is highly selective to oxide (20:1), while providing even removal on Tin and titanium.

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 .....Nickel, tungsten

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® A18	Aluminum oxide	0.24	4.0	16.3	1.09
ULTRA-SOL® A19	Aluminum oxide	0.24	4.0	11.2	1.05
ULTRA-SOL® A20	Aluminum oxide	0.24	4.1	16.3	1.09

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® A20 highlights

- Hard, alpha-alumina abrasives designed for aggressive removal rates
- Proprietary oxide package to improve selectivity on multiple materials
- Popular choice for patterned media, hard-drive heads, and tungsten
- 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.