

A18 Alumina Slurry

Alloy Advantage

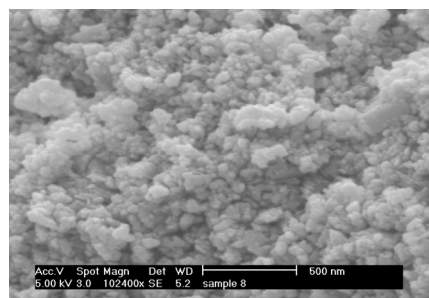
Description

The Ultra-Sol A18 is an enhanced version of A15 with proprietary additives which provide a mirror finish on exotic metals. 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, 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 information provided in this note should be used as a starting point for the customer's application.

Physical Characteristics

SF-A18	
Mean Particle Size	0.24 μ
pH	4.0
Solids Content (By Weight)	16%



A18 SEM Image

Handling

It is recommended that this slurry only be used in pure form. However, it can be diluted in a 3:1 ratio of deionized water to slurry. Only the highest quality (18 Mohm or higher) deionized water should be used for dilution. Dilution above the recommended ratio may significantly reduce the life of the slurry and alter its unique chemistry. **Note that due to chemical additives in A18, the shelf life for this slurry is 3 months from the date of manufacture.**

Warning: Contact with skin and eyes can cause irritation. Inhalation of vapors may cause nasal and respiratory irritation – use adequate ventilation. Handlers should use personal protective equipment including, but not limited to, rubber gloves, protective clothing, dust/mist respirator and eye protection. For additional information consult the Material Safety Data Sheet.

Significant agitation is needed to resuspend particles prior to use. The product should be mixed continuously, by re-circulation or mechanical stirring. It is recommended that an in-line filter of at least 10-microns be used with this product. Storage and re-use of diluted slurry is not recommended. If diluted slurry is allowed to sit long enough to settle out of suspension, re-use of the settled solids, without proper rework, may cause some minor scratching and should be avoided.

Do not attempt to adjust the pH of the slurry! The addition of chemicals other than de-ionized water may cause gelling and/or settling of the slurry. If a different pH is required, please contact your Eminess Technologies Applications Engineer for assisting in attaining desired results.

Storage

Storage tanks and distribution piping should be constructed of engineered plastic of polyethylene, polypropylene or fluoropolymer. Materials such as aluminum, copper, brass, stainless steel and PVC should be avoided. All packaging containers are High Density Polyethylene (HDPE). Maintain storage in a temperature-controlled environment, between 40 and 100°F, avoiding prolonged exposure at either extreme.

Disposal

Dispose in accordance with all applicable regulations.

If you have any questions or comments, please don't hesitate to call your EMINESS Technologies, Inc. Applications Engineer.

About Eminess

For over twenty years Eminess has been providing quality, precision polishing consumables to a vast array of industries. In addition to polishing slurries, Eminess also manufactures a variety of complimentary products, including polishing pads, waxless fixturing, carrier films, and pad conditioners.



We have invested heavily in the tools and infrastructure necessary to provide superior support to our customers, and guarantee quality products through strict observance of ISO 9001 standards. Our knowledgeable support and customer service staff stands ready to assist with polishing projects of any size. For superior products, support, and results, think Eminess!