

Description

Application:

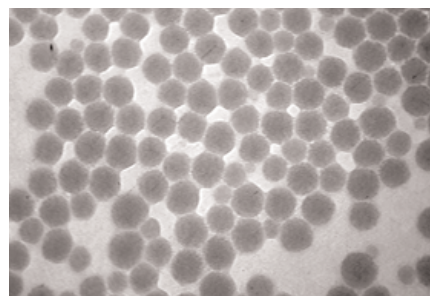
- Following first step bulk removal of Cu stop on barrier layer. Possible use as a first step polish through longer polish times and/or increase in oxidizer.
- Second Step Copper (Cu) on Tantalum (Ta) or Tantalum Nitride (TaN) and Silicon Dioxide (SiO₂)
- Oxidizer is industry standard Hydrogen Peroxide (H₂O₂) 30% concentrate added in 0.02% to 1.5% range
- H₂O₂ oxidizer selectivity can be optimized for best advantage in customers integration
- Recommended polishing pad Rodel IC1000 or IC1000/SIV stacked or IC1000/SP or IC1010/SP pad

Advantages:

- Excellent Surface Finish (Ra, Wa, Ia)
- Reproducible polishing results and easy to use
- Suppresses grain highlighting
- No pitting or corrosion
- Controllable Removal Rate (RR) on Ta, TaN, Cu, and SiO₂

Physical Characteristics

SF-S13	
Mean Particle Size	70nm
pH	9.0
Solids Content (By Weight)	15%



Tightly controlled silica particles

Handling

Ultra-Sol S13 is a safe aqueous based slurry. However, to avoid skin or eye irritation, handlers should use personal protective equipment including, rubber gloves, protective clothing, and eye protection. Follow all MSDS and label precautions and use appropriate industrial safety and hygiene practices when handling or using this product.

It is recommended that Ultra-Sol S13 be used in pure form. Due to the product's unique formulation, it is further recommended that the user should not attempt adjustment of the pH. If a different pH is required, please contact your EMINESS Technologies, Inc. Applications Engineer, for assistance in attaining the 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 and PVC should be avoided.

Standard packaging includes five (5) gallon pails and fifty-five (55) gallon drums. One (1) gallon bottles are also available upon request. All 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!