

3A Colloidal Silica Slurry

Fiber Sol

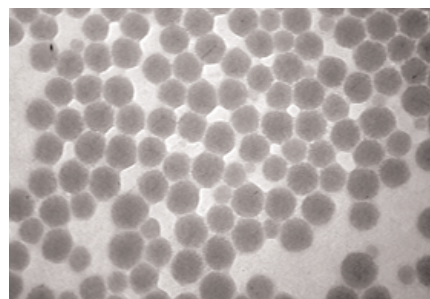
Description

Ultra-Sol "A" series of colloidal silica polishing compounds is an alkaline group of unique silica particles technologies combined with ammonia-based chemical enhancement to provide a format for obtaining the best possible surface finishes on a variety of substrate materials including Silicon, Germanium, Silicon Carbide, Crystal, Gallium Arsenide, Sapphire and Lithium Niobate.

Eminess Technologies offers colloidal silicas in acidic, neutral, and alternative no-ammonia alkaline formulations. The information provided in this note should be used as a starting point for the customer's application.

Physical Characteristics

SF-3A	
Mean Particle Size	12nm
pH	10.0
Solids Content (By Weight)	30%



Tightly controlled silica particles

Handling

Ultra-Sol 3A contains ammonia. Provide proper ventilation and use of appropriate full-face respirator is recommended. To avoid skin or eye irritation, handles 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 3A colloidal silicas be used in its pure form. However, if diluted, use only high-quality de-ionized water (>18M ohm). Mild agitation will keep the diluted slurry suspended. The product should be mixed periodically (10 to 20 min/day) by re-circulation or mechanical stirring. 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. Storage and re-use of diluted slurry is not recommended.

Due to the unique formulation, it is further recommended that the user not adjust the pH. If a different pH is required, please contact Customer Service at Eminess Technologies 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!

