

Description

Ultra-Sol 555 Colloidal Silica is a unique colloidal silica formulation that allows the user to obtain higher removal rates than with standard sodium-hydroxide stabilized colloidal silicas. The chemical enhancements in Ultra-Sol 555 not only provide enhanced removal rates, but superior surface quality in stock removal applications. It can be used in final polish operations with adjustments to polishing parameters dependent upon the specific material and process utilized.

The information provided in this note should be used as a starting point for the customer's application.

Physical Characteristics

SF-555	
Mean Particle Size	70nm
pH	10.0
Solids Content (By Weight)	50%

Handling

It is recommended that Ultra-Sol 555 be diluted with high-quality deionized water (>18 Mohm). Dilution ratios will have to be determined by the customer for maximum efficiency; however dilution ratios of 15:1 and 20:1 deionized water / Ultra-Sol 555 have been proven successful in polishing silicon wafers. All dilutions should be done under moderate agitation. Diluted slurries should be kept agitated in day-use tanks. Any diluted slurries that have been allowed to settle out of suspension should be discarded as re-agitation of these slurries is not recommended.

Customers should only dilute what is necessary for production needs. Unopened slurry has a shelf life of one year from the date of manufacture. It is not recommended to attempt to re-use spent slurry. All spent slurry should be disposed of according to all applicable regulations.

NOTE: Adjustment of pH should not be attempted by the user. If a different pH is required, please contact Eminess Technologies for recommendations.

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!