

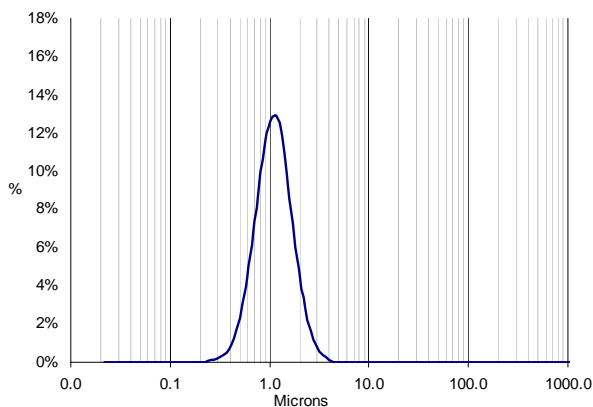
Description

Ultra-Sol Q Diamond Suspension is a unique, neutral pH, water-based suspension of *premium* polycrystalline diamond powder. It offers the best in terms of particle size distribution and control of D_{max} . Ultra-Sol R Diamond Suspensions carry industry standard polycrystalline diamonds at a more economical price tag for less critical applications. Both utilize Eminess' proprietary chemistry, which creates a completely homogenous suspension regardless of particle size. Both offer a viscosity that is capable of being pumped or sprayed, and both may be used in applications where a fine surface quality is desired in a final polish application.

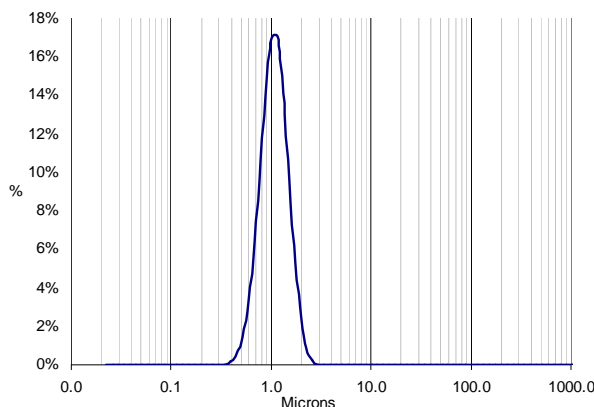
Both the Ultra-Sol Q and R Diamond Suspensions have been successfully used to obtain superior finishes in wide variety of applications including, but not limited to:

- Crystals and substrates such as sapphire, silicon carbide, boron carbide
- Tool and mold polishing
- Metallographic specimen preparation
- Ceramics and composites polishing
- Magnetic head assembly fabrication, lapping of overcoat alumina

1 Micron R-Grade Diamond



1 Micron Q-Grade Diamond



Both grades are available in a variety of sizes, with mean particles ranging from 0.5μ to 9.0μ . As is common in the industry, concentrations will vary by particle size. Heavier concentrations and/or larger particles are also available on request.

Physical Characteristics

SF-STD/R					
Mean Particle Size	0.5 μ	1.0 μ	3.0 μ	6.0 μ	9.0 μ
pH	7.5	7.5	7.5	7.5	7.5
Carats/Gallon	50ct	55ct	100ct	115ct	130ct

Handling

Ultra-Sol Q & R Diamond Suspensions are safe, aqueous based slurries. 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 these products.

It is recommended that Ultra-Sol Q and R Diamond Suspensions only be used in their pure form. The slurries are provided at a neutral pH at a standard concentration of diamond abrasive. Lighter or heavier concentrations are available upon request. The user should not adjust the pH. If a different concentration or pH is required, please contact your Eminess Technologies; Applications Engineer for assisting in attaining desired results.

Storage

Standard packaging includes one (1) gallon bottles. Smaller quantities are 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!

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