

Ultra-Sol

“M & R” Series Alumina Powders

Description

Ultra-Sol “M & R” Powders are unique aluminum oxide abrasive powders. The controlled distribution and high-purity (>99.99%) alumina powders provide an optimum solution for critical needs in precision polishing of optical materials, electro-optical materials, laser crystals, ophthalmic lenses, and in metallurgical specimen preparation.

The “R” powders are ideal for less stringent polishing applications where a totally scratch-free surface is not necessary. They have the unique ability to break down during the polishing process to produce nicely polished surfaces, but with a coarser surface roughness than that which can be obtained with the Ultra-Sol “M” series. “M” series alumina powders are derived from the “R” material, have fewer agglomerations, and are capable of producing surface finishes approaching a few angstroms. The “R” and “M” materials are commonly used in place of BaikaloX GE/A and CR respectively.

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

Physical Characteristics

	R5 / M5	R15 / M15	R30 / M30	R100 / M100
Mean Particle Size	1.0 μ	0.3 μ	0.1 μ	0.05 μ

Handling

Ultra-Sol Alumina powders are safe, dry powders. 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 Alumina powders be mixed with high-quality de-ionized water (>18 M ohm). Steady agitation is all that is needed to keep the mixed slurry suspended. The product should be mixed periodically 10-20 min/day, by recirculation or mechanical stirring. 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.

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!