



NexSil Silicon Wafer Polishing Slurries
NexSil 3500, 6000, 5000 and 5000HP

NEXSIL SILICON WAFER POLISHING SLURRIES

Nyacol Nano Technologies, Inc. manufactures colloidal silica-based wafer polishing slurries. These products are used for stock polishing and final polish of silicon wafers and other semiconductor substrates, as well as for polishing of precision optics and other materials.

NexSil silicon wafer-polishing slurries are formulated using colloidal silica produced by Nyacol Nano Technologies, Inc. to exacting standards, with chemical additives used to achieve specific performance requirements. If our standard products do not meet your needs, we can discuss a custom product for your application.

NexSil 3500

NexSil 3500 is based on 35 m²/g, or 85 nm, colloidal silica, and is formulated for high removal rate in the stock polish step. Typical volume dilutions are 20:1.

NexSil 6000

NexSil 6000 is based on 60 m²/g, or 50 nm, colloidal silica and is formulated for high removal rate in the stock polish step. This product is typically used with volume dilutions of 15 to 20:1, and provides an excellent balance of removal rate and surface finish. NexSil 6000 can also be used for the final polish step with adjustment in concentration and operating conditions.

NexSil 5000 and 5000HP

NexSil 5000 is based on 5 nm colloidal silica and is formulated for the final polish step. NexSil 5000HP is a low metals version of NexSil 5000. These products provide exceptional surface finish and good removal rates at volume dilutions of 5:1 to 10:1, with adjustment of operating conditions. NexSil 5000HP offers the potential for exceptionally low transfer of metal ions to the wafer surface.

TYPICAL PROPERTIES

PRODUCT	METAL OXIDE	METAL OXIDE WT.%	PARTICLE SIZE NM	pH 25°C	SPECIFIC GRAVITY
NexSil 3500	Silica	40	70-100	11-12	1.3
NexSil 6000	Silica	40	40-60	11-12	1.3
NexSil 5000	Silica	15	4-6	11-12	1.1
NexSil 5000HP	Silica	15	4-6	11-12	1.1

FOR ADDITIONAL INFORMATION OR TO ORDER MATERIAL

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