



MSW1500 Polishing Slurry

DESCRIPTION

MSW1500 slurry is a low-sodium metal polish slurry designed primarily for tungsten CMP processing. This product is supplied in a ready-to-use, single-component solution that is 7.0% abrasive and has a pH of 4.

KEY BENEFITS

MSW1500 Offers:

- High yield
- Good planarity
- High Ti removal rate
- Low oxide erosion
- Low plug recess
- Low dishing effect

PERFORMANCE

Typical Properties

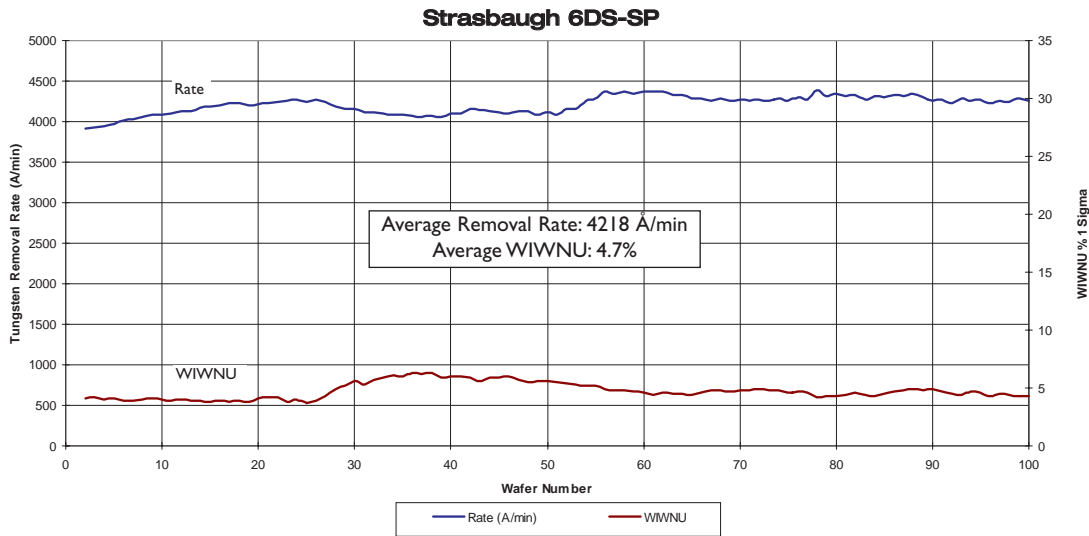
ELEMENTAL ANALYSIS (ppb)

Element	ppb	Element	ppb
Ca	2800	Mg	3330
Cd	40	Mn	200
Co	170	Na	2200
Cr	100	Ni	100
Cu	270	Ti	25000
Fe	4200	Zn	730

Typical Properties

Physical Properties

Median Particle Diameter, nm	225
Percent Alumina	6.9
Specific Gravity @ 25°C	1.09
pH @ 25°C	4.0



creating the
flawless surface

PRODUCT HANDLING

Dispensing and Mixing

MSW1500 Tungsten Polishing Slurry is supplied ready-to-use for tungsten CMP. Settling in pail or drum containers will occur during shipment.

Do not make any adjustments to the slurry. Pumping directly from the MSW1500 container is recommended. Follow safe chemical handling procedures. When dispensing liquids, safety goggles or a full face shield is recommended to avoid eye injury. Avoid skin contact.

Using a mixer, position the blade at an angle approximately 2 inches from the bottom of the drum. Mix for 30 minutes at a speed where vortexing is avoided. (Mix longer for larger containers.) Continuously mix the slurry for the entire duration of use. This will mean monitoring the fluid level and adjusting the mixer where appropriate. If a distribution system is used, the recommended flow rate is >2.5 feet per second.

Do not leave slurry containers open for extended periods of time as this results in evaporation of the more volatile components. Leaving containers open may also result in drying of the abrasive, which can cause scratching.

Rinse all transport lines, flow meters and other equipment after use and prior to exposing to air. This will prevent any sedimentation of abrasive particles and undesirable drying and buildup within the transport system.

Filtering

If filtering is desired, use a 10–20 inch filter housing and start with a 50 µm pleated filter. Set the housing in the recirculation loop at a place with easy accessibility.

If possible, mount a full flow bypass in the loop for filter changes. Pressure gauges should also be

mounted on the inlet and outlet sides of the housing to monitor pressure changes.

STORAGE

Storage outside of the recommended conditions may result in irreversible product degradation. Product can be stored up to the expiration date between the temperature range of 10–43°C (50–109°F). Avoid prolonged exposure at temperatures at either extreme. Products can be stored outside of this range for up to 24 hours, provided they do not go below 10°C (50°F) or above 48°C (118°F). In the event of exposure outside of the recommended conditions, please contact our technical representative for recommendations. In all cases the products should be allowed to return to normal room temperatures prior to use.

Shippers are responsible for damaged material until shipments are accepted. If material is damaged the shipment should be refused, and a claim should be filed with the carrier handling the delivery.

Store MSW1500 in dark polyethylene or polypropylene containers - aluminum, copper, brass or PVC is not recommended. Tanks, piping and handling equipment can be cleaned with a dilute caustic solution to remove any deposits due to evaporation. Avoid exposure to ultraviolet light and prolonged exposure to bright light.

PRECAUTIONARY NOTES

Follow all and label precautions and use good industrial safety and hygiene practices when handling or using this product. Keep this and all industrial materials away from untrained personnel.

DISPOSAL

Dispose in accordance with applicable regulations.

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