

Wafers & Sliders: Slicing, Dicing, Sawing

Application Notes: The NuSlice products are designed to eliminate electrostatic discharge (ESD) problems with its built in high conductance. The 100% synthetic formula contains no oils or anionic ingredients leading to even cleaner substrates. NuGenTec's proprietary lubricant package results in longer cutting tool life, improved surface finishes, reduced edge chipping and surface scratching, faster cutting speeds, improved kurf removal, enhanced cleanability.

NuSlice 5 & 6, ultra high purity, slicing and dicing fluids were formulated for thin-film heads and silicon wafers. With mobile ion impurities lower than 0.5 ppm in dilution, the products have the highest purity levels in the industry. Formulated to prevent attack on all semiconductor and slider assemblies. NuSlice 5 is formulated without any biocides or fungicides yet contains built in corrosion protection for copper, while 5-B contains an effective biocide/fungicide for systems concerned with bacterial growth or not using UV light sterilization. NuSlice 6 is formulated without additional copper corrosion protection.

NuGeneration Technologies' Wafer product line has been formulated with the needs of the industry in mind. All of our products are manufactured using the highest-grade raw materials with 18 MOhm DI water then filtered to meet customers' requirements before packaging. Our products are cost effective i.e. formulated for extended bath life, contain no VOC's or chelates, are safe to use (contain NO Prop 65 or SARA 313 ingredients), biodegradable and are easily disposed⁽¹⁾ of thereby reducing the cost of waste treatment.

Typical Usage Parameters: For Slicing, Dicing and Sawing

	NuSlice 5	NuSlice 5B	NuSlice 6	NuSlice 6B
Description	Wafers & Read-write heads	Wafers & Read-write heads	Glass & Ceramics	Glass & Ceramics
Type	Single pass	Re-circulating	Single pass	Re-circulating
Recommended Concentration	1-3%	3-6%	1-3%	3-6%
Operating Temps.	Ambient	Ambient	Ambient	Ambient
Biocide Added	NO	YES	NO	YES
Copper corrosion Inhibitor	YES	YES	NO	NO

Physical Properties:

	NuSlice 5	NuSlice 5B	NuSlice 6	NuSlice 6-B
pH, concentrate	8.1	8.1	8.1	8.1
pH, @ 5% b.v.	8.25 @ 5%bv	8.25 @ 5%bv	8.25 @ 5%bv	8.25 @ 5%bv
Conductivity @5% (µS/CM)	2,500 @ 5%bv	2,500 @ 5%bv	2,500 @ 5%bv	2,500 @ 5%bv
Bulk Density, #/gal	8.8	8.8	8.8	8.8
Flash point	None	None	None	None
Solubility in water	Complete	Complete	Complete	Complete
Biodegradable	Yes	Yes	Yes	Yes
Chelates	No	No	No	No
Corrosive	No	No	No	No
Ozone friendly	Yes	Yes	Yes	Yes
Bactericide / Fungicide	No	No	No	Yes

Availability: Available in 5, 55 and 300-gallon containers. Bulk tank shipments also available.

Shipment: Freight classification is "cleaning compound, NOBIN – Liquid."

Storage: Keep out of direct sunlight. Keep from freezing. Store between 40-120°F.

⁽¹⁾**Disposal:** Dispose of in accordance with local, state, & federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-Nugen or email: info@nugentec.com.