

Post CMP Cleaning: Aqueous Cleaning of Al, Cu & W Wafers

Application Notes:

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 and most products contain only non-hazardous ingredients), biodegradable and are easily disposed⁽¹⁾ of thereby reducing the cost of waste treatment.

The **NuWet** and **NuKlean** line of aqueous wafer cleaners were formulated to provide improved removal of particulates, organics and metallic's while providing reduced residues, and fast rinsing. **NuWet** and **NuKlean** products are non-corrosive on aluminum, copper and tungsten based wafers and may be used in ultrasonic, megasonic and scrub cleaning processes.

Typical Usage Parameters:

	NuKlean WX 4	NuWet 133	NuKlean WX 11
Description	Acidic	Non-ionic surfactant blend	Alkaline
Concentration Range	1-10%	1-20%	1-10%
Operating temps	70 to 120°F	70 to 120°F	70 to 120°F
Purpose	Particle removal Metallic salts Oxide removal	Particle removal	Particle removal Metallic salts

Physical Properties:

	NuKlean WX 4	NuWet 133	NuKlean WX 11
pH, concentrate	3.1	4.5	11.2
pH, @ 5% bv	3.3	6.0*	10.9
Bulk Density, #/gal	8.5	8.3	8.6
Flash point	None	None	None
Solubility in water	Complete	Complete	Complete
Biodegradable	Yes	Yes	Yes
Chelates	No	No	No
Corrosive	No	No	No
Ozone friendly	Yes	Yes	Yes

* Diluted NuWet 133 take on pH of water. Typical value listed.

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.

Custom Formulation: NuGenTec Specializes in Formulating specifically for your process, exclusivity can also be arranged on developmental products.