



SPECIALTY CHEMICALS / AQUEOUS CERAMIC CLEANER

AmberClean™ L53H



AmberClean L53H is a biodegradable, aqueous cleaner that does not contain hazardous solvents or materials. It is specifically formulated to flush and disperse ceramic, silicon and other slicing, lapping and polishing fines from substrate surfaces. AmberClean L35H also emulsifies and removes oil residues such as those left by slicing coolants, wire saw, lapping and polishing slurries. Additionally, the surfactant technology employed by AmberClean L53H is designed to cut through and remove aluminum oxide, diamond, silicon carbide, and cerium oxide as well as other process residues without harming delicate ceramic, glass or silicon substrates. It can be used in immersion and ultrasonic cleaning applications. A 5% solution of AmberClean L53H effectively lowers surface tension to <30 dynes/cm.

TYPICAL PHYSICAL PROPERTIES

Appearance	Clear, amber liquid
Specific gravity, 20°C	1.02
Lbs/gallon	8.50
pH (concentrate)	9.70
Surface tension @ 20°C, 5% in DI water	29.0 dynes/cm
Flash point	None

RECOMMENDED PROCESS PARAMETERS

AmberClean L53H can be diluted with deionized water to a concentration of 5.0% - 20.0% v/v, depending on the application and cleaning requirements. AmberClean L53H can be used at temperatures from ambient to 65°C (150°F). A minimum temperature of 30°C is recommended for controlled applications. Generally, cleaning performance is doubled, or cleaning time halved, for a 10°C increase in cleaner temperature. Ultrasonic cleaning is strongly recommended to effectively remove heavy oils and sub 1µ particle contamination.

AVAILABLE PACKAGING

55 gallon drums, 5 gallon pails, 1 gallon containers

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FEATURES AND BENEFITS

- Cleans diamond, SiC and other slurries and process residues effectively
- Non-aggressive toward ceramic, glass, silicon and other fabricated substrates
- Emulsifies and removes oil residues
- Reduces surface tension to <30 dynes/cm at 5%
- Biodegradable and poses no environmental or health risks
- Will not leave films or residues
- Non-silicate and safe to use

SURFACE CONDITIONING

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