



SPECIALTY CHEMICALS / FIXED ABRASIVE WIRE SLICING COOLANT

AmberCut™ DWC 117T



AmberCut™ DWC-117T is a synthetic wire slice coolant specifically formulated for the cutting of semiconductor materials, including silicon, germanium and II-VI crystals, using a fixed abrasive wire. It provides excellent cut rates and imparts outstanding surface finishes with reduced warp and TTV. AmberCut™ DWC-117T offers superior dispersion of kerf particles and cooling of the cut zone. AmberCut™ DWC-117T effectively eliminates hydrogen gas evolution from the cutting of silicon and during waste treatment. Additionally, AmberCut™ DWC-117T exhibit extended use life allowing the slicing of multiple ingots while maintaining performance properties. This unique formula is biodegradable, water rinseable and will not leave films or residues.

TYPICAL PHYSICAL PROPERTIES

Appearance	Clear, light yellow liquid
Specific gravity, 20°C	1.06
Lbs/gallon	8.80
Conductivity	<0.15 mS/cm (@1%)
pH	4.1 (@1%)
Surface Tension	44 dynes/ cm (@1%)
Chemical Oxygen Demand (COD)	6,300 mg/L (@1%)
Water Solubility	Soluble in all proportions
Flash point	>300°F (TCC) Non-Combustible

RECOMMENDED PROCESS PARAMETERS

AmberCut™ DWC-117T should be diluted with water to a concentration of 0.5-2.0%

AVAILABLE PACKAGING

55 gallon drums, 5 gallon pails, 1 gallon containers

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FEATURES AND BENEFITS

- Provides excellent cut rates and outstanding surface finishes
- Prevents kerf from loading wire
- Reduced warp and TTV
- Eliminates hydrogen gas evolution
- Superior particle dispersion
- Biodegradable and poses no environmental or health risks
- Minimal contamination of parts
- Water rinsible for easy cleaning

SURFACE CONDITIONING

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