

AmberCut™ WS-236T

Biodegradable Wire Slice Vehicle

Description

AmberCut WS-236T is a ready to use, synthetic, wire slice vehicle specifically formulated for the free abrasive cutting of sapphire or other crystalline materials. It provides excellent cut rates and imparts outstanding surface finishes with reduced warp and TTV. AmberCut WS-236T offers superior abrasive suspension at loading rates up to 60%. Slurries blended with this vehicle have low dynamic viscosities and smooth flow properties. Additionally, AmberCut WS-236T slurries exhibit extended use life allowing the slicing of multiple ingots while maintaining performance properties. This unique formula is biodegradable, water rinsable and will not leave films or residues.

Features and Benefits

- Provides excellent cut rates and outstanding surface finishes
- Superior abrasive suspension
- Reduced warp and TTV
- Low dynamic viscosity for smooth slurry flow
- Biodegradable and poses no environmental or health risks
- Minimal contamination of parts
- Water rinsability facilitates cleaning
- Provides maximum slurry efficacy

Typical Physical Properties

Appearance	Clear light yellow liquid
Specific gravity @ 20°C	1.12
LBS/gallon	9.35
Conductivity	<10 µS
pH (5% solution)	8.5
Viscosity (Brookfield, @ 28°C)	70 cps
Flash point	>300°F (TCC) Non-Combustible
Water Solubility	Soluble in all proportions

Recommended Process Parameters

AmberCut WS-236T is ready to use and does not require dilution. This vehicle is capable of achieving loading rates of up to 0.7:1; abrasive to AmberCut WS-236T. Typical abrasives, up to 30 microns in size, include: Silicon carbide, Diamond, Boron carbide, Aluminum oxide, etc. For diamond, typical loading ranges from 13-20% (w/w).

Availability

55 gallon drums, 5 gallon pails, and bulk tote Containers.

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