



SPECIALTY CHEMICALS / BIODEGRADABLE WIRE SLICE VEHICLE
CONCENTRATE



AmberCut™ WSA 1

AmberCut™ WSA-1 is a synthetic, wire slice vehicle Concentrate specifically designed for the free abrasive cutting of silicon or ceramic materials. It provides superior cut rates and imparts good surface finishes with reduced warp and TTV. AmberCut™ WSA-1 is designed to be blended with polyethylene glycol 200 (PEG 200) to form a wire slicing vehicle. Slurries blended with AmberCut™ WSA-1 have low dynamic viscosities, smooth flow properties, are water rinseable and will not leave films or residues. Additionally, AmberCut WSA-1 is biodegradable, nonhazardous and non-toxic, making it an environmentally sound alternative to oil based vehicles.

TYPICAL PHYSICAL PROPERTIES

| | |
|--------------------------------|--------------------|
| Appearance | Hazy, Amber liquid |
| Specific gravity, 20°C | 1.12 |
| Lbs/gallon | 9.41 |
| Conductivity | <10 µS |
| pH (5% solution) | 5.5 |
| Viscosity (Brookfield, @ 28°C) | 45 cps |
| Freezing Point | -10°C |
| Flash point | >440°F |

RECOMMENDED PROCESS PARAMETERS

AmberCut™ WSA-1 is designed to be used at 5% (w/w) in polyethylene glycol 200 (PEG 200). It is capable of achieving loading rates of up to 1.2:1, abrasive to blended AmberCut WSA-1 vehicle (w/v). Typical abrasives, up to 30 microns in size, include Silicon carbide, Diamond, Boron carbide, Aluminum oxide, etc.

AVAILABLE PACKAGING

55 gallon drums, 5 gallon pails, 1 gallon containers

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FEATURES AND BENEFITS

- Provides superior cut rates
- Enhances surface finish, warp and TTV
- Low dynamic viscosity for smooth slurry flow
- Biodegradable, non-hazardous and environmentally safe
- Minimal contamination of parts
- Water rinseability facilitates cleaning