



VECTOR HTA-D-2

SYNTHETIC LOW IFT COOLANT/LUBRICANT FOR DIAMOND WIRE SAWING SILICON

VECTOR HTA-D-2 is an aqueous based synthetic formulation developed to optimize cropping and squaring of silicon ingots using diamond wire. VECTOR HTA-D-2 allows the diamond wire to saw properly through the silicon by penetrating through the kerf and wetting the Si/Diamond/Nickel interface keeping surfaces free cutting and clean. The matrix in which the diamond is contained is also lubricated and cleaned allowing for consistent sustainable cutting at higher speeds typical of diamond wire saws. Heat transfer characteristics of the diluted product also insure prolonged diamond life. VECTOR HTA-D-2's foam-free characteristic ensures compatibility with all filtration systems. The product is odor free, safe and biodegradable. As an added benefit, the coolant keeps the debris generated from the saw soft and easier to clean than conventional products reducing maintenance and machine down-time.

VECTOR HTA-D-2 may also be used as an edge-grinding and surface grinding coolant/lubricant in recirculating coolant systems.

Benefits:

- Optimized surface finishes
- Optimized removal rates
- Minimized Deflection
- Makes silicon easier to clean post-sawing
- Non-foaming
- Optimized wire life
- Non-staining
- Compatible with all filtering systems
- Non-corrosive
- Operator friendly

Directions:

VECTOR HTA-D-2 is designed for use at economical dilution ratios and is equally effective in hard and soft water (though DI or softened water is best). For optimum results dilute the product with water at between 25:1 and 50:1 depending on the sawing application.

Maintaining dilution ratios with a hand-held industrial fluid tester (refractometer) is recommended. Develop production-specific scales by obtaining accurately measured samples of a properly diluted mixture that corresponds to use.

Additional Information:

VECTOR Products are available in 5-gallon pails and 55-gallon drums, F.O.B. Bethel, Connecticut, and also include sawing fluids, suspension additives for lapping/polishing slurries, rinse/wet storage additives and ultrasonic/megasonic detergents. Material Safety Data Sheets available upon request.

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