



VECTOR HTA

SYNTHETIC COOLANT/LUBRICANT FOR DIAMOND WIRE CROPPING AND SQUARING OF SILICON INGOTS

VECTOR HTA is an aqueous based synthetic formulation developed to optimize cropping and squaring of silicon ingots using diamond wire. VECTOR HTA allows the diamond wire to saw properly through the silicon by keeping the Si/Diamond interface free cutting and clean. The matrix in which the diamond is contained is lubricated and cleaned allowing for consistent sustainable cutting at higher speeds typical of diamond wire cropping and squaring saws. Heat transfer characteristics of the diluted product (3%) also insure prolonged diamond life. VECTOR HTA's foam-free characteristic ensures compatibility with all filtration systems. The product is odor free, safe and biodegradable.

Vector HTA may also be used as an edge-grinding coolant/lubricant in re-circulating coolant systems.

Benefits:

- Optimized surface finishes
- Optimized removal rates
- 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 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 follow the dilution ratios listed below:

Cropping and Squaring - 30:1

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.

Manufactured by: Intersurface Dynamics, Inc.
21 Clarke Circle, PO Box 181, Bethel, CT 06801
Tel 203-778-9995 • Fax 203-778-4659 • Email admin@isurface.com
An ISO 9001:2008 Registered Company