



**Highlights**

- Extended blade life
- Increased production
- Less bow and warp
- Elimination of exit chipping
- Reduced blade deflection
- Elimination of substrate tear
- Lowest sub-surface damage

Synthetic grinding fluid (single-pass)

**VECTOR HTI**

VECTOR HTI is a synthetic formulation developed for use in “once-through” processes using I. D. diamond blades. With its exceptional heat transfer capability, VECTOR HTI quickly cools the diamond blade for longer diamond life, while the product’s superior detergency keeps the diamond interface clean and free cutting for both increased cutting speed and reduced blade deflection. A next generation version of this product has been developed which offers improved performance.

**Typical applications**

Gallium arsenide, germanium, sapphire, silicon, silicon carbide

Slurry additive	Base material	Dilution ratio	pH value	Specific gravity
VECTOR HTG	Water	75:1	9.8	1.03
VECTOR HTI	Water	400:1	12.3	1.02
VECTOR HTN	Water	20:1	9.0	1.00
VECTOR HTS	Water	25:1	9.0	1.00



VECTOR HTI grinding coolant reduces process variation, extends diamond wheel life, and achieves better cut rates and surface finishes.



VECTOR HTI is a single-pass coolant designed for solar and silicon grinding.



Pureon offers a wide range of customized solutions. More information can be found on [www.pureon.com/products/overview](http://www.pureon.com/products/overview)

**Product specifications**

Base material ..... Water  
Shelf life ..... 24 months

**Order information**

Packing ..... Product is available in 5-gallon pails and 55-gallon drums. Other sizes available upon request.  
Unit of measure ..... Gallon (gal)

**Application recommendations**

Handling ..... VECTOR HTI is designed for use at very high dilution ratios. It is typically evaluated at a ratio of 400 parts water to 1 part product (.25%). Since the dilution ratio is so high, water quality plays an important role in the performance of the fluid make-up. Deionized (DI) water works best because of the elimination of ion interference with the surfactant base. Softened or fairly normal tap water will also perform adequately if the quality does not fluctuate.

We recommend that dilution ratios be maintained with a conductivity meter and a pH meter. For consistent results, develop production-specific scales by obtaining accurately measured samples of a properly diluted mixture that corresponds to use. Use this product in "once-through" systems only.

Storage ..... Product should be stored in a temperature controlled environment. Prolonged exposure to temperatures at or below 32 ° Fahrenheit (0 °C) is discouraged. Prolonged exposure to temperatures at or above 100 ° Fahrenheit (38 °C) is also discouraged. In addition, material should always be sealed when not in use to prevent evaporation.

Disposal ..... Dispose of in accordance with all applicable local regulations.

This product is manufactured by Intersurface Dynamics.

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