

## **CHALLENGE 365-HT**

### **SUSPENSION TYPE LAPPING SLURRY ADDITIVE**

### **FOR SAPPHIRE, SILICON CARBIDE, AND CERAMIC MATERIALS**

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CHALLENGE 365-HT is an aqueous based additive designed to be mixed with DI water and abrasive to form a homogenous suspension used to lap/polish hard crystal materials and ceramics. Typically used at a concentration of between 5% and 10% with DI water, CHALLENGE 365-HT will provide a true suspension for up to 1 year depending upon the concentration used and the surface chemistry of the abrasive.

CHALLENGE 365-HT provides for laminar consistent flow of slurry throughout the lapping plate or polishing pad. Abrasives such as Diamond, SiC, B4C and Alumina are typically first dispersed in DI water and then the CHALLENGE 365 HT is added.

Slurries created with CHALLENGE 365-HT are designed to be used once-through and not re-circulated. However, systems have been designed to re-use the slurry by adding additional 365-HT and abrasive to the used slurry to achieve the needed characteristics

CHALLENGE 365-HT is also designed to be used with diamond impregnated lapping/polishing pads for increased removal rate. For more information on this process contact [sales@isurface.com](mailto:sales@isurface.com).

#### **Benefits:**

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- Increase in removal rate compared to conventional slurries
- Excellent long term suspensions
- High lubricity
- Superior wetting ability
- Scratch free surfaces with optimum surface finish and flatness
- Free rinsing and easy to clean
- Economical to use at concentrations at concentrations between 5-10%
- No odor
- Fully compatible with other CHALLENGE Series and VECTOR Series products.
- Biodegradable

#### **Directions:**

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CHALLENGE 365-HT is designed for use at between 5-10% with DI water. Disperse the abrasive in the water first. Once the abrasive is dispersed add the CHALLENGE 365-HT. Mix for 10-15 minutes at approximately 1500 RPM. Turn off the mixer or keep it at a low speed to insure that the suspension is not degraded through shearing.

#### **Additional Information:**

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CHALLENGE Products are available in 5-gallon pails and 55-gallon drums, F.O.B. Bethel, Connecticut, and also include: grinding fluids, sawing fluids, rinse/wash agents and ultrasonic/megasonic detergents. Material Safety Data Sheets available upon request.