



CHALLENGE 580-HT

LAPPING/POLISHING SLURRY ADDITIVE FOR SUSPENDING DIAMOND ABRASIVE

CHALLENGE 580-HT is a lapping/polishing slurry additive for use on commercial polishing pads. The product disperses and suspends diamond or other super-abrasives, producing an even and consistent film over the pad, yielding fast removal combined with low Ra and TTV. CHALLENGE 580-HT is ideal for lapping/polishing hard single crystal material such as SiC and Sapphire. It can also be used when producing ceramic parts such as AlTiC, SiC, Al₂O₃, TiC. Additionally, when used as directed, CHALLENGE 580-HT represents an economical, safer and environmentally sensitive alternative to conventional glycol and oil-based lapping vehicles.

Benefits:

- Increased removal rate
- Finer, more consistent finishes
- Lower Rmax and Ra
- Less sub-surface damage
- Less abrasive usage
- Easier post-lap cleaning

Directions:

CHALLENGE 580-HT is designed for use at a 10% concentration with de-ionized water. Add between 0.20-1.00 percent diamond directly to the mixture. A suitable mixing system includes: an ultrasonic mixer or a dispersion mixer for dispersing the diamond; a plastic or stainless steel mixing tank and a variable speed mixer with marine-type prop to mix the final slurry. A typical slurry formula would include 899.8 grams of DI water, 100 grams of 580-HT and 0.2 grams of diamond powder. Slurry should be fed onto polishing pad using a peristaltic pump or pressurized bottle.

Additional Information:

CHALLENGE 580-HT is available in 1 gallon bottles, 5 gallon pails and 55 gallon drums F.O.B. Bethel, Connecticut. Other CHALLENGE products include: grinding fluids, sawing fluids, rinse/wash agents and ultrasonic/megasonic detergents. Material Safety Data Sheets available upon request.

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