

VECTOR SERIES DIAMOND SLURRIES

VECTOR Series Diamond Slurries are completely dispersed suspensions of accurately sized synthetic polycrystalline diamonds. The suspension chemistry is composed of an aqueous based synthetic surfactants, polymers and lubricants developed to optimize removal rate and surface finish when lapping or hard materials such as hard ceramics SiC and Sapphire. The slurries can be used on either a lapping plate or a polishing pad. The slurries are fully suspended and dispersed for easy application from the slurry tank to the workpiece via a peristaltic pump.

The product extreme lubricating qualities allows for use of higher speeds and pressures during the process while continuing to exhibit exceptionally accurate defect free finish down to 2 angstroms.

Particle sizes are available from 0.5um to 12um and are chosen dependent upon surface roughness and removal rate required. When purchasing a VECTOR Series Diamond Slurry, please specify diamond size or consult a sales engineer.

Typical Applications:

Lapping or polishing a variety of hard ceramics, SiC and Sapphire.

Benefits:

- Better surface finishes
- Faster removal rates
- High lubrication
- Low foam
- Non-staining
- Contains no glycols or oils
- Non-corrosive to ferrous metals

Typical Properties:

pH	9.3
Conductivity mS	0.325
Specific Gravity	1.01

Directions:

VECTOR Series Diamond Slurries are designed for use as received. The flow rate is determined by the size of the plate/pad and configuration of the plate/pad.

Additional Information:

CHALLENGE Series Diamond Slurries are available in 1-gallon bottles, 2 ½ gallon bottles and 5-gallon pails. Safety Data Sheets available upon request.