



HASTILITE HRD

BC50001, BC50001NS

HASTILITE HRD is a specially designed nanodiamond slurry for lapping hard ceramic or crystalline materials, specifically designed for multiple plane finishing of sapphire. Its unique formulation combines mechanical and chemical properties to provide high removal rates of 20-60 micron / hr. and superior surface finishes of <1 nm Ra. A unique, final lapping formula used in both conventional and double side operations, **HASTILITE HRD** leaves the surface fine lapped and uniform, where unique chemical and mechanical properties allow for best final lapping and finish.

APPLICATION

Use **HASTILITE HRD** solution as is. For best results, please consult with UPI technical staff to recommend optimal processing conditions.

BENEFITS

- Faster removal rates and better surface finishes than conventional lapping materials
- Increased efficiency, and yield
- Replaces multiple lapping steps

PHYSICAL CHARACTERISTICS

TEST	HASTILITE HRD
Appearance	Brown Liquid
Removal Rate (μm / hr)	20 - 60
Surface Finish Ra (nm)	< 1
pH	11 - 13.5
Average Diamond Particle Size (μm)	0.125
Specific Gravity	1.05 - 1.15

AVAILABILITY

1 Gallon, 500 Gram sample