

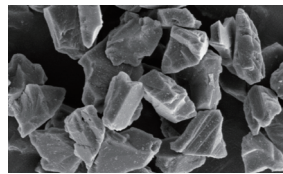
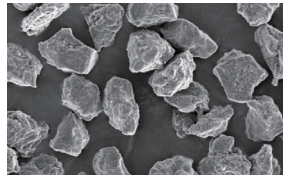


HAPD/HSPD Diamond Slurry

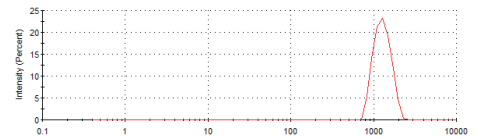
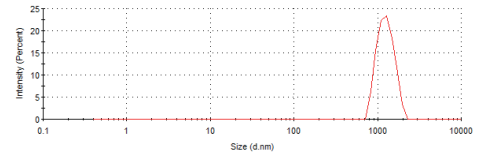
Hydroqual Advanced Detonated Polycrystalline Diamond Slurry
 Hydroqual Standard Detonated Polycrystalline Diamond Slurry



HAPD in different size of containers



SEM



Size Distribution

INTRODUCTION:

Qual Diamond Hydroqual Detonated Polycrystalline Diamond Slurry is hydro-based formulation. The slurries are made with detonated polycrystalline diamond particles dispersed in the water-based liquids. The unique surface modification technology prevents the agglomeration of diamond particles. Available sizes range from submicron to 10µm. They are widely used for lapping and precision polishing of different materials such as silicon chips, optical devices, metallic works, etc.

FEATURES:

- ◆ The rough polycrystalline diamond particle surface has numerous contact points between diamond particles and the work piece, providing high material removal rates
- ◆ Its compressive strength and impact strength are far below monocrystalline diamond. During the lapping process, the applied pressure breaks the polycrystalline particles exposing new sharp cutting edges
- ◆ As it breaks down in its original shape, allowing for finer finishes
- ◆ Polycrystalline does not have cleavage planes thus cannot splinter like monocrystalline diamonds. Thus, it will not sub-surface deformation
- ◆ Ideal for high performance lapping and polishing
- ◆ Tightly controlled particle size distribution and oversized particles
- ◆ Well stabilized slurries increases process stability
- ◆ All the ingredients are environmentally-friendly decreasing the disposal cost
- ◆ Easy to clean after lapping/polishing
- ◆ Qual Diamond 's innovative formulation can sustain -20°C to 50°C environment

Size	Grit Distribution			PH value
	D10,µm	D50,µm	D99,µm	
0-0.25	0.1	0.1	0.4	7.5-9.0
0-0.5	0.1	0.3	0.8	7.5-9.0
0.5-1	0.2	0.4	1.5	7.5-9.0
1-2	1.0	1.2	2.9	7.5-9.0
1-3	1.0	2.0	3.9	7.5-9.0
2-3	1.5	2.5	4.0	7.5-9.0
3-5	3.0	4.0	6.8	7.5-9.0
5-7	4.0	6.1	8.5	7.5-9.0
6-12	5.5	8.8	15.5	7.5-9.0
7-10	6	8.9	12.8	7.5-9.0
Available Concentration:	1g/l, 2g/l, 5g/l, 10g/l, 25g/l, 50g/l			
Available Viscosity:	A 100-150cpm, B 200-300cpm, C 500-800cpm, D over1000cpm			
Available Package:	250ml 500m 1L 1G			