



microdiamant

Diamond slurries
Engineered products
Product range

Perfect surfaces, reproducible results.

Microdiamant diamond slurries are precisely customized to the requirements of your process. Reliable and easy achievement of your desired surface finishing.

Engineered diamond slurries

Microdiamant Diamond slurries are stabilized by special additives and trimmed to the highest removal rates. The combination of carrier liquid and precisely classified, guaranteed agglomerate-free micron diamond powder can achieve any required surface finish. Our diamond slurries are unbeatable in terms of efficiency and reproducibility and convince by high efficiency.

These parameters will be customized to your application:

- ❶ Slurry type ❷ Diamond concentration cts/ltr
- ❸ Viscosity ❹ Diamond type/Size

Slurry type	Oil-based diamond slurry		
	SPO	HO	O
Carrier liquid	oil-based	oil-based	oil-based
Special characteristics	High-performance oil-based diamond slurry, used for lapping and polishing	Oil-based diamond slurry for medical applications, free of heavy metals, chlorine and sulphur	Oil-based diamond slurry, suitable for high process temperatures
Viscosity	3.5-350 cP *	100 cP	200 cP
Stability	stabilized and not stabilized versions available	stabilized	stabilized
pH value	N/A	N/A	N/A
Health & Eco friendly	-	-	-
Diamond type	Available with polycrystalline or monocrystalline diamond powder		
Diamond concentration	As requested, typical 25 cts/ltr		
Applications	Lapping and polishing of sapphire, ceramics and metals on metal lapping plate.	Lapping and polishing of orthopedic joints or implants made of ceramics or metals.	Lapping and polishing processes subject to high process temperatures such as polishing of ceramic implants.

* for details please see corresponding datasheet

The ready-to-use advantage

Focus on the processing of your workpiece thanks to our ready-to-use diamond slurries. The mixing is omitted and the slurries are fully stabilized. All Microdiamant diamond slurries are carefully engineered to be ecologically friendly and to meet highest work safety standards, they are easy to handle and have good cleaning properties.

Your benefit: less rework, better process control, reduction of unproductive working hours and lower unit costs.

Diamond emulsion		Water soluble diamond slurry	
PW	SPW	OWS	OPW
oil-water emulsion	water-based	glycol-based	water-based
Emulsion-based diamond slurry	Universal water-based slurry for lapping on metal plates	Glycol-based slurry with good lubrication properties	Specifically used for processing of optical parts with sub-micron diamond sizes
430 cP	5-800 cP *	125-9'000 cP or gel like *	60-325 cP *
stabilized	stabilized and not stabilized versions available	stabilized	stabilized
6.8	8.5-9.5 *	5.5-7.5 *	8.0-9.8 *
			
Available with polycrystalline or monocrystalline diamond powder			
As requested, typical 25 cts/ltr			
Emulsion for lapping of metallic and ceramic materials.	Water-based slurry for lapping and polishing of sapphire, ceramics and metals on metal lapping plate or textile polishing pad.	Glycol-based, water-free slurry for lapping and polishing of sapphire, ceramics and metals on metal lapping plate or textile polishing pad.	Polishing of optical lenses of various materials with submicron diamond sizes.

