



Highlights

- Highly tailor-made: select any diamond type, grit size and concentration
- User-friendly thanks to stabilized formulation
- Environmentally friendly and easy to clean
- Scratch-free polishing also in submicron range
- Guaranteed agglomerate-free

Glycol-based diamond suspension

OWS

Water soluble suspension designed for lapping and polishing of ceramic and metals. The product is widely used for finishing of sapphire, ruby, silicon carbide, tungsten carbide and other super hard materials. OWS suspension is fully water-soluble but does not dry up when exposed to air. This makes it a perfect product to replace oil-based polishing fluids. The excellent lubrication properties of OWS allow for high lapping pressures and thus high removal rates.

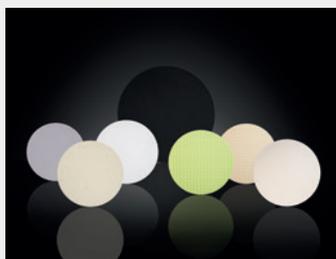
Typical application

lapping and polishing of sapphire, ruby, ceramics, metals and other superhard materials

Suspension type	Viscosity	Stability	pH value
OWS-220	750 cP	stabilized	7.5
OWS-320	9'000 cP	stabilized	7.5
OWS-1150	gel-like	stabilized	7.5



Suspensions are available in customer-tailored formulations in a wide range of viscosities, diamond types, grit sizes and concentrations.



Diamond suspensions are used with various lapping and polishing pads. We are happy to assist you in finding the best suitable products.



Pureon offers a wide range of customized solutions. More information can be found on www.pureon.com/products/overview

Product specifications

Carrier liquid water-soluble
 Typical lapping plate metal lapping plate, polishing pad (check compatibility)
 Density 1.00 g/cm³

Order information

Order code OWS-220 / 25 MSY 1 – 2 micron
 Packing Bottles 1ltr, 2.5 ltr, Containers 5 ltr, 10 ltr
 If not specified, 1 liter bottles are filled.
 Units Liter (ltr)

Examples

Suspension type / diamond concentration

Suspension type	Diamond concentration ¹		
	low 15 cts/ltr	medium 30 cts/ltr	high 50 cts/ltr
OWS-100	OWS-100/15	OWS-100/25	OWS-100/50
OWS-220	OWS-220/15	OWS-220/25	OWS-220/50
OWS-320	OWS-320/15	OWS-320/25	OWS-320/50
OWS-1150	OWS-1150/15	OWS-1150/25	OWS-1150/50

¹ Other diamond concentrations between 10 and 500 cts/ltr available.

Diamond type / size

Diamond grit size	Polycrystalline diamond ²	Monocrystalline diamond ²
0.25 micron	DP 0.25 – 0.5 micron	MSY 0.25 – 0.5 micron
0.50 micron	DP 0.25 – 0.75 micron	MSY 0.25 – 0.75 micron
1 micron	DP 0.75 – 1.25 micron	MSY 0.75 – 1.25 micron
3 micron	DP 2.5 – 4 micron	MSY 2.5 – 4 micron
6 micron	DP 5.5 – 8 micron	MSY 5.5 – 8 micron
9 micron	DP 8 – 12 micron	MSY 8 – 12 micron
15 micron	DP 10 – 20 micron	MSY 10 – 20 micron
30 micron	DP 20 – 30 micron	MSY 20 – 30 micron

² Other diamond types / sizes available.

Contact

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