



Highlights

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

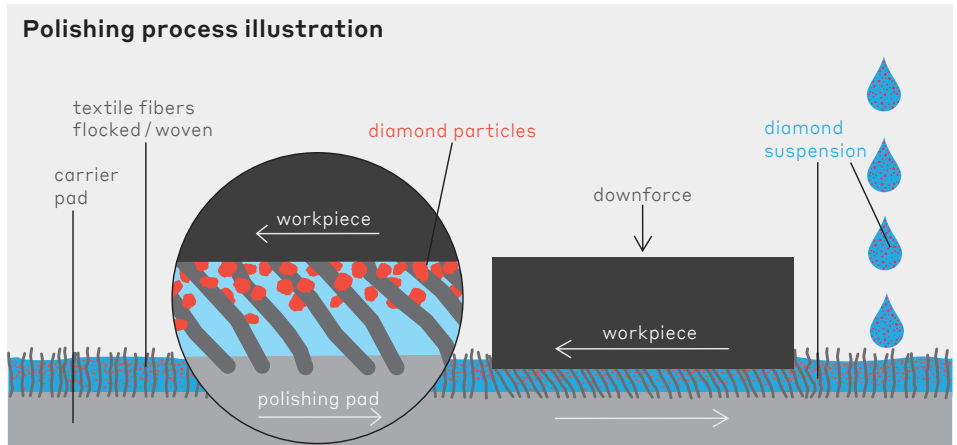
Water-based diamond suspension

OPW

This water-soluble, ready-to-use diamond suspension was designed for the final polishing of optical components, ceramics and metals. OPW suspensions are optimized for highest performance of finishing processes from 3 micron down to 0.1 micron. Adapted OPW formulations are available for polishing on pads or pitch plates / PU-foils.

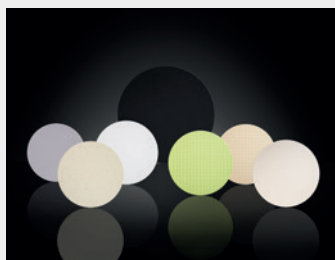
Suspension typ	Viscosity	Stability	Remarks
OPW-10	200 cP	stabilized	Pitch plate or PU-foil
OPW-20	325 cP	stabilized	Textile polishing pad
OPW-21	250 cP	stabilized	Double-side polishing

OPW-10 can be used in combination with lubricant Yellow or Yellow-S to improve lubrication and cooling or to buff out at the end of the polishing process.





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 application polishing of optical lenses of various materials with submicron diamond sizes
 Density 1.04 g/cm³

Order information

Order code OPW-10/25 DP 0.25 – 0.5 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
OPW-10	OPW-10/15	OPW-10/25	OPW-10/50
OPW-20	OPW-20/15	OPW-20/25	OPW-20/50
OPW-21	OPW-21/15	OPW-21/25	OPW-21/50

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

Diamond type / size

Diamond grit size	Polycrystalline diamond ²	Monocrystalline diamond ²
0.025 micron	DP 0 – 0.05 micron	MSY 0 – 0.05 micron
0.05 micron	DP 0 – 0.1 micron	MSY 0 – 0.1 micron
0.10 micron	DP 0 – 0.2 micron	MSY 0 – 0.2 micron
0.25 micron	DP 0 – 0.5 micron	MSY 0 – 0.5 micron
0.35 micron	DP 0.25 – 0.5 micron	MSY 0.25 – 0.5 micron
0.5 micron	DP 0.25 – 0.75 micron	MSY 0.25 – 0.75 micron
0.75 micron	DP 0.5 – 1.0 micron	MSY 0.5 – 1.0 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

² Other diamond types / sizes available.

Lubricant

Lubricant type ³	Base	pH value	Remarks
Yellow	water / alcohol-soluble	9.0	to be used with polishing pads
Yellow-S	water / alcohol-soluble	6.5	to be used with pitch plates

³ Other lubricants available.

Contact

Pureon
sales@pureon.com
www.pureon.com/sales-contacts