



Highlights

- Highly tailor-made: select any diamond type, grit size and concentration
- Environmentally friendly and easy to clean
- Tight particle size distribution

Water-based diamond suspension

SPW

Water soluble ready-to-use diamond suspension designed for high-performance lapping and polishing of sapphire, ceramics, and metals. The suspension is suitable for use on metal lapping plates and polishing pads. SPW suspension is fully water-soluble which simplifies handling and cleaning. Performance enhancers help to achieve highest material removal rates without compromising on surface finish. Process stability is increased due to the stabilized formulation which prevents precipitation of the diamond particles.

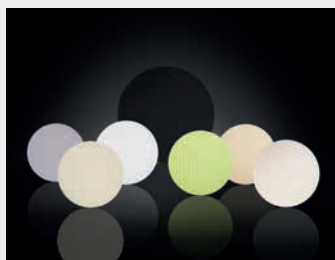
Typical application

lapping and polishing of sapphire, ceramics, and metals

Suspension type	Viscosity	Stability	pH value
SPW-5	5 cP	easy-shake	9.5
SPW-50	60 cP	stabilized	9.5
SPW-150	250 cP	stabilized	9.0
SPW-300	300 cP	stabilized	8.8



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. Get in touch with us.

Product specifications

Carrier liquid water-soluble
 Typical lapping plate metal lapping plate or textile polishing pad
 Density 1.0 – 1.1 g/cm³

Order information

Order code SPW-50/25 MSY 0.75 – 1.25 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 25 cts/ltr	high 50 cts/ltr
SPW-5	SPW-5/15	SPW-5/25	SPW-5/50
SPW-50	SPW-50/15	SPW-50/25	SPW-50/50
SPW-150	SPW-150/15	SPW-150/25	SPW-150/50
SPW-300	SPW-300/15	SPW-300/25	SPW-300/50
SPW-800	SPW-800/15	SPW-800/25	SPW-800/50

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
0.5 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 – 40 micron

² Other diamond types / sizes available.

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