

PUREON

Lapping and polishing slurries



Water-based diamond suspension

SPW



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.

Diamond suspension for standard lapping and polishing

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 on 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.

Properties

Carrier liquidwater-soluble

Typical applicationlapping and polishing of sapphire, ceramics, metals

Typical lapping platemetal lapping plate or textile polishing pad

Density1.0-1.1 g/cm³

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
SPW-800	800 cP	stabilized	8.5

Order example

SPW-50/25 MSY 0.75-1.25 micron
Quantity 5 ltr
Packing unit 1 ltr

Packing

Bottles 1 ltr, 2.5 ltr
Containers 5 ltr, 10 ltr
If not specified,
1 liter bottles are filled.

Units

Liter (ltr)

Contact

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

Order information

Example product code SPW-50/25 DP 5.5-8 micron
① ② ③

- ① Suspension type
- ② Diamond concentration cts/ltr
- ③ Diamond type/size

SPW highlights

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



Additional types and sizes for customized specifications can be found on www.puron.com/products/overview

Examples

Suspension type/diamond concentration

Suspension type	Diamond concentration ¹	Diamond concentration ¹	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.