

# SPLENDIS universal-use diamond suspensions

## Product range



**The right SPLENDIS suspension for every application**

**SPLENDIS O** suspensions offer superior lapping and polishing performance. Engineered for use on metal lapping plates, SPLENDIS O is the preferred choice to achieve precision surfaces at the highest material removal rate.

**SPLENDIS W** is the perfect general-use suspension family. The formulation is designed for use on metal lapping plates as well as on polishing pads. SPLENDIS W diamond slurries achieve excellent surface quality at high performance. Work piece handling and cleaning is easy. All SPLENDIS W products meet highest standards for work safety and are environmentally friendly.

**Suspension type**

**SPLENDIS O/P**

Oil-based diamond suspension, universal use

**SPLENDIS O/M**

Oil-based diamond suspension, universal use

Special characteristics

Polycrystalline diamond, oil-based carrier liquid, high removal rate

Monocrystalline diamond, oil-based carrier liquid, cost-effective

Carrier liquid

Oil-based

Oil-based

Diamond type

DP polycrystalline diamond powder, precision size range

MSY monocrystalline diamond powder precision size range

Viscosity

30 cP

30 cP

Stability

Stabilized

Stabilized

pH value

N/A

N/A

Health & Eco friendly

-

-

Shelf life

2 years

2 years

Applications

Standard lapping and polishing (made to stock). High-performance lapping and polishing of ultra-hard and hard materials such as sapphire, hard ceramics or corrosion sensitive materials

Lapping and polishing of various materials, oil-based carrier liquid specially suited for corrosion sensitive materials

Additional types and sizes for customized specifications can be found on [www.puron.com/products/overview](http://www.puron.com/products/overview)

**SPLENDIS .../P** Polycrystalline diamond features a rough, micro-structured particle surface with numerous contact points between the particle and work piece. It is the first choice for high-performance lapping of very hard materials such as sapphire, ceramics or hard metals, as well as for polishing processes on soft polishing pads.

**SPLENDIS .../M** Monocrystalline diamond is a popular choice for general lapping and polishing applications. It is widely used for not extremely hard materials such as ceramics, metals, diamond wire dies and gemstones.

**SPLENDIS W/P**

Water-based diamond suspension, universal use

Polycrystalline diamond, water-based carrier liquid, good cleaning properties

Water-based

DP polycrystalline diamond powder, precision size range

Size < 1µm = 300 cP / size > 1µm = 60 cP

Stabilized

8.5



2 years

Standard lapping and polishing (made to stock). High-performance lapping and polishing of hard and ultra-hard materials, good cleaning properties

**SPLENDIS W/M**

Water-based diamond suspension, universal use

Monocrystalline diamond, water-based carrier liquid, good cleaning properties, cost-effective

Water-based

MSY monocrystalline diamond powder precision size range

Size < 1µm = 300 cP / size > 1µm = 60 cP

Stabilized

8.5



2 years

Economic lapping and polishing of various materials, such as metals and ceramics, good cleaning properties

**Suspension type**

Special characteristics

Carrier liquid

Diamond type

Viscosity

Stability

pH value

Health & Eco friendly

Shelf life

Applications

**SPLENDIS universal-use diamond suspensions**

- Versatile
- Ready-to-use
- Cost efficient
- Made by Pureon
- Available from stock

**Highlights**

- Universal-use formulation suits most lapping and polishing applications
- Suspended diamond abrasive, long shelf life
- Precision graded diamond, grit sizes from 0.1 to 15 micron
- Produced by Pureon, using first quality, certified ingredients
- Competitive pricing due to large volume manufacturing
- Available from stock

**Examples**

Suspension type	Size	Order code
SPLENDIS O/P	0.1micron	SPLENDIS O/P 0.1micron
Oil-based carrier liquid	0.25 micron	SPLENDIS O/P 0.25 micron
	0.5 micron	SPLENDIS O/P 0.5 micron
Polycrystalline diamond	1micron	SPLENDIS O/P 1micron
	3micron	SPLENDIS O/P 3micron
	6micron	SPLENDIS O/P 6micron
	9micron	SPLENDIS O/P 9micron
	15 micron	SPLENDIS O/P 15 micron

Suspension type	Size	Order code
SPLENDIS O/M	0.1micron	SPLENDIS O/M 0.1micron
Oil-based carrier liquid	0.25 micron	SPLENDIS O/M 0.25 micron
	0.5 micron	SPLENDIS O/M 0.5 micron
Monocrystalline diamond	1micron	SPLENDIS O/M 1micron
	3micron	SPLENDIS O/M 3micron
	6micron	SPLENDIS O/M 6micron
	9micron	SPLENDIS O/M 9micron
	15 micron	SPLENDIS O/M 15 micron

Suspension type	Size	Order code
SPLENDIS W/P	0.1micron	SPLENDIS W/P 0.1micron
Water-based carrier liquid	0.25 micron	SPLENDIS W/P 0.25 micron
	0.5 micron	SPLENDIS W/P 0.5 micron
Polycrystalline diamond	1micron	SPLENDIS W/P 1micron
	3micron	SPLENDIS W/P 3micron
	6micron	SPLENDIS W/P 6micron
	9micron	SPLENDIS W/P 9micron
	15 micron	SPLENDIS W/P 15 micron

Suspension type	Size	Order code
SPLENDIS W/M	0.1micron	SPLENDIS W/M 0.1micron
Water-based carrier liquid	0.25 micron	SPLENDIS W/M 0.25 micron
	0.5 micron	SPLENDIS W/M 0.5 micron
Monocrystalline diamond	1micron	SPLENDIS W/M 1micron
	3micron	SPLENDIS W/M 3micron
	6micron	SPLENDIS W/M 6micron
	9micron	SPLENDIS W/M 9micron
	15 micron	SPLENDIS W/M 15 micron

**Contact**

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