



**It enables to obtain
high accurate finished surface**

Sunoble

DIAMOND PASTE & SLURRY

DIAMOND PASTE

SP-series

- Multi-purpose
- High finishing accuracy, High working efficiency.
- High workability
- Economy

The diamond paste and lubricant produced by Asahi Diamond is so special that it last longer with small volume and maintain polishing capability at high level. By choosing proper lubricant, it enables to obtain economic lapping/polishing at any work-material.

Characteristics and type of "Diamond paste, SP- series"

Type of paste	Lubricant	Working				Characteristics	Examples of work-material
		Efficiency	Accuracy	Surface roughness	Water washability		
SP-W (Water-soluble)	SPR-W	○	○	○	◎	In the case that oil-soluble is not preferable to work-material.	Semiconductor - Germanium, Silicon Magnetic material - Ferrite, Alnico Ceramics - Sapphire, Ruby, Glass Rocks, Stones, Minerals, Porosity material, others
SP-WO (Dual-use)	SPR-W	◎	○	○	○	It's compatible with both water and oil.	
	SPR-O	◎	◎	◎	×	For all purpose.	Carbide, Tool steel, other metals Diamond, Gem stones, Test materials for metallurgical microscope Soft metals, others
SP-O (Oil-soluble)	SPR-O	◎	◎	◎	×	For the work-material which easily rust. High working efficiency, for huge area of work-piece.	

Particle size and colour coding of "Diamond paste, SP- series"

Diamond size description	Mesh size	Colour	Micron size / range(μm)	Application example	Polishing/Lapping jig
70	270	Pale red	# 270/325	Lapping, Pre-lapping	Cast iron, Soft metal(e.g. Copper, Tin), Glassfiber, Hardpaper, Felt, Polishing buff
50	400	Deep red	40~60		
35	500	Brown	30~40		
25	600	Pale yellow	20~30		
15	1,000	Mustard	10~20		
9	1,700	Light green	5~12	Sub-super finish	Soft metal (e.g. Copper, Tin), Felt, Hard wood, Cotton wool, Polishing buff
6	2,500	Dark green	4~8		
3	5,000	Sky blue	2~4		
2	7,500	Deep blue	1/2~3	Super finish	Felt, Hard wood, Elder-pith, Cotton wool
1	15,000	Purple	0~2		
1/2	30,000	White	0~1		
1/4	60,000	White	0~1/2		

※Standard liquid volume: Paste 5g, Lubricant 250cc.

DIAMOND SLURRY

SP-series

- High polishing efficiency
- High stability in long working hours
- High accurate finished surface
- Good washability of work-piece

Diamond slurry produced by Asahi Diamond is featured with high homogeneous distribution level, high lubricity, and high cooling effect, and it maximize variant capabilities of diamond, and it enable to obtain highly accurate finished surface.

Characteristics and type of Particle size of "Diamond slurry, SP- series"

SP-□-O(Oil-soluble)

Generic slurry with high polishing capability and high quality surface. It match with work-material witch easily rust.

SP-□-W(Water-soluble)

It matches with some work-material which is not preferable to use oil-base stuff, or some work material which is hard to rust. It provides good washability of work-piece due to water-base.

Particle size of "Diamond slurry, SP- series"

Diamond size description		Micron size/range (μm)	Application example
Oil - soluble	Water - soluble		
SP-50-O	SP-50-W	40~60	Pre-lapping
SP-35-O	SP-35-W	30~40	
SP-25-O	SP-25-W	20~30	
SP-15-O	SP-15-W	10~20	Sub-super finish
SP-9-O	SP-9-W	5~12	
SP-6-O	SP-6-W	4~8	
SP-3-O	SP-3-W	2~4	
SP-2-O	SP-2-W	1/2~3	Super finish
SP-1-O	SP-1-W	0~2	
SP-1/2-O	SP-1/2-W	0~1	
SP-1/4-O	SP-1/4-W	0~1/2	
SP-1/10-O	SP-1/10-W	0~1/5	

※Standard liquid volume: 500cc(glass bottle).

Contact info.



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*The contents of this catalogue are subject to change without notice.