

Grinding Stones

for Lapping Process



Our Grinding Stones for Lpping are used for precision instrument grinding. Owing to its slight elasticity effect, it is suitable for finishing of difficult-to-grind materials such as aluminium, copper, nickel alloy and stainless steel.



(JWP,FBB) aluminium substrates and spacer rings for computer (HDD)

Features

JWP Grinding Stones,

made from Polyvinyl Alcohol and much characterized by its sponge type structure. And designed for using with water or water soluble coolant.

FBB Grinding Stones and Wheels,

made from Polyvinyl Alcohol and thermosetting resins. And designed for using with water or water soluble coolant.

Major Applications

JWP Grinding Stones,

aluminium substrates and spacer rings for computer HDD, watch dials, alminium pressure plates for camera.

FBB Grinding Stones and Wheels,

stainless steel spacer rings for computer HDD engine parts of automobile made from clad steel (alminium, copper and steel) electronic parts made from various alloy (alminium, nickel, cobalt, copper etc.)



(FBB) various material parts



JWP Grinding Stones, FBB Grinding Stones for Lapping Process

Hardness Comparison table

	JWP	FBB (soft type)	FBB (hard type)		
Hardness	soft ←	medium			
Young's Modulus	50∼600 MPa	300∼1500 MPa	1000~3000 MPa		

Standard specifications & Dimension table

JWP Grinding Stones

Abrasive	Grit#		Grade	Young's Modulus		
	400	1500	S	50∼80 MPa		
С	600	2000				
	800	3000	M	$90\sim$ 160 MPa		
	1200	4000				
GC	6000		Н	170∼600 MPa		

Segment type: Available in various size for lapping machine.

FBB Grinding Stones (soft type)

Abrasive Grit#		-i+#	Grade							
		Hardness		Density		Grain %		Cure Temperature		
	220	800	N3	soft	S	low	10	low	٨	low
GC (WA)	320	1000	INO	1	M	1	12	\uparrow	A B	1
(WA)	400	2000	N5	1	H	\downarrow	14		С	1
	600	3000	СИ	hard	П	high	14	high	C	high

Dimension Segment type: Available in various size for lapping machine. Wheel type: Maximum Outer Diameter 510mm, Maximum Thickness 50mm

Example of Abrasive grain and Grade

- 1) FBB-N GC220 N5H14C
- 2) FBB-N GC800 N5H12A

FBB Grinding Stones (hard type)

Abrasive Grit#		Grade							
Abrasive	GIII#	Kind of Amount of Bond Bond		Amount of Filler	Density	Cure Temp.			
	120		low	low	low	low			
WA	220	- LBA (Brittle type) -	4	4	4	H ↑			
	320		5	5	5	^			
	400		6	6	6	A			
	600		0	0	0	В			
GC —	800	LHB (Hard type)	7	7	7				
	1000		8 ↓	8	8	c ↓			
	2000		high	high	high	high			

Dimension

Segment type: Available in various size for lapping machine. Wheel type: Maximum Outer Diameter 510mm.

Maximum Thickness 50mm

Example of Abrasive grain and Grade

- 1) FBB-C WA320 LBA438H
- 2) FBB-C WA600 LHB546C
- *Please ask the availability of combination.

Cautions for operation

- 1. Do not use beyond the maximum peripheral speed (m/s) indicated on each stone/wheel or inspection
- 2. Check all stones/wheels before installing, and do not use the stone/wheel that has cracking, fractures or
- 3. Coolant:designed for wet grinding, water-soluble type is recommended.
- 4. Do not leave the wheels in any place where it will be subjected to direct sunlight or high-temperature and humidity.
- 5. Addition to the above cautions, always handle, store, and use stones and wheels in a careful manner according to A.N.S.I. Safety Code B7.1.



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