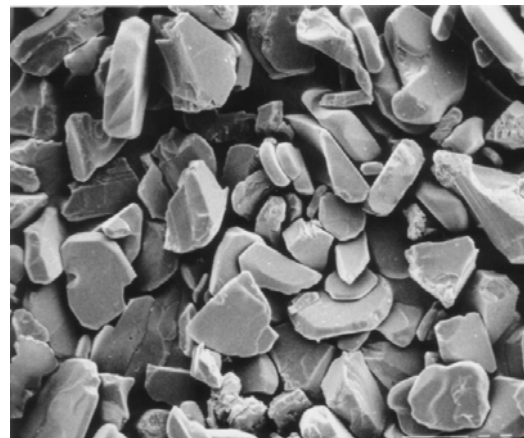


Fujimi - PWA, Platelet White Alumina

Fujimi is the leading manufacturer of precisely graded abrasives. PWA's precision white calcined alumina abrasive is manufactured to give you high quality plated crystals. In addition to providing platey crystal structure, which will improve the cutting rate, PWA will also provide you with more uniform grades than have been available from many sources. Fujimi's unique grading technology produces fine closely graded abrasives for electronic substrate, optical, soft to hard metal, and silicon manufacturing industries. PWA is available in a wide variety of grades. This wide selection will help you select the proper grade to produce the correct surface finish and rate of material removal to suit your unique manufacturing requirements.

Technical Data

Chemical name: Calcined alumina oxide
Appearance: White Powder
Structure: Mono-crystalline alpha alumina, hexoagonal and platey
Specific gravity: 3.94
Typical chemical compositions:
 Al₂O₃: 99.2 %
 SiO₂: 0.05
 Na₂O: 0.55
 Fe₂O₃: 0.08
 TiO₃: 0.02
 lg.loss: < 0.1
Hardness (Knoop): 1800 - 2200
PH: 9.5



PWA 15

Applications

Lapping: Silicon, Gallium, Arsenide, G.G.G., Quartz Crystal, Optical Glass, Optical Plastic, hard to soft materials, Fillers for coating. Honing stones.

Lapping Performance

Products	Stock Removal Rate	Surface Finishes	
	Micron/Min.	Ra Micron	R-max Micron
PWA 15	17.5	0.42	2.89
Fused alumina #1200	6.0	0.18	1.35

Particle Distribution

Grade	Average Micron Size (Coulter Counter Method)	Grade	Average Micron Size (Coulter Counter Method)
PWA 1	1.2	PWA 20	14.0
PWA 3	3.0	PWA 25	17.0
PWA 5	4.5	PWA 30	20.0
PWA 9	6.0	PWA 35	25.0
PWA 12	7.8	PWA 40	30.0
PWA 15	10.0		

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