

Zirconia Fused Alumina(ZA25 & ZA40)

Description

Zirconia Fused Alumina, also named Zirconia Fused Aluminium Oxide, is an artificial electro fused corundum produced by fusion of alumina powder and zirconia sand mixture in about 2000°C electric arc furnace. The mixed chemical contents are well fused and grant the material spectacular crystalline microstructure and tiny crystal size. Zirconia Fused Alumina has remarkable strength and resistance to dulling in artificial corundum family, outperforming Brown Fused Alumina, White Fused Alumina, Silicon Carbide etc. It's widely used in abrasive and refractory industries because of its excellent cutting ability and high resistance.

Physical Specification

Color: Dark Brown

Hardness: Mosh 9

Special Gravity: ≥ 4.3 g/cm³ for ZA25, ≥ 4.6 g/cm³ for ZA40

Melting Point: 1990°C

Compression Strength: ≥ 500 N

Sizes: F8-F220, P12-P220, 0-1mm, 1-3mm, 3-5mm, 0-0.2mm, 0-0.5mm



Chemical Content

Item#	Al ₂ O ₃	ZrO ₂	SiO ₂	TiO ₂	Fe ₂ O ₃
ZA25	>70%	23-27%	<0.4%	<0.4%	<0.3%
ZA40	>56%	38-42%	<0.1%	<0.2%	<0.3%



Microstructure

Magnetic Content

F4-F12, P12	F14-F24, P16-P24	F30-F54, P30-P50	F60-F220, P60-P220
$\leq 0.035\%$	$\leq 0.030\%$	$\leq 0.025\%$	$\leq 0.020\%$

Bulk Density of FEPA F8-F220 for Abrasives

Size	ZA25	ZA40	Size	ZA25	ZA40
F8	2.32-2.24	2.38-2.34	F46	1.98-1.90	2.05-1.96
F10	2.26-2.19	2.32-2.28	F54	1.96-1.88	2.03-1.92
F12	2.24-2.16	2.30-2.26	F60	1.94-1.86	2.00-1.88
F14	2.19-2.14	2.28-2.24	F70	1.92-1.83	1.97-1.85
F16	2.18-2.12	2.24-2.18	F80	1.89-1.81	1.94-1.83
F20	2.16-2.03	2.21-2.15	F90	1.86-1.80	1.91-1.81
F22	2.13-2.02	2.18-2.12	F100	1.83-1.77	1.88-1.79
F24	2.10-2.00	2.15-2.09	F120	1.80-1.74	1.85-1.76
F30	2.06-1.97	2.12-2.06	F150	1.78-1.71	1.82-1.73
F36	2.02-1.95	2.10-2.04	F180	1.78-1.68	1.80-1.70
F40	1.99-1.93	2.08-2.01	F220	1.75-1.64	1.78-1.70

Applications

F8-F220: Bonded Abrasive(Grinding Wheel, Cutting Wheel etc), Sand Blasting

P12-P220: Coated Abrasive(Sanding Belt, Abrasive Belt etc.)

0-1mm, 1-3mm, 3-5mm, 0-0.2mm, 0-0.5mm: Refractory Bricks, Shaped Refractory Products, Monolithics

Package & Shipping



Big Bag of 1 Ton, 1.2 Ton, 1.3 Ton

25kg Paper Bag, 40 on a Wood Pallet

25kg Woven Plastic Bag, 40 on a Wood Pallet

Shipped in 20'GP Container Load of 20-26 Tons, depending on Customer's Requirement

