



Luoyang Zhongsen Refractory Co., Limited
Yaowan Village, South Dukang Road, Yichuan County, Luoyang City, Henan Province, P.R. CHINA
TEL: 0086-379-69351288 WEB: www.zhongsen-refractory.com

Certificate of Analysis-Brown Fused Alumina

General Information

Product : Brown Fused Alumina for Resin Bonded Abrasives,
Vitrified Bonded Abrasives, Sandblasting, Polishing, Surface Preparation

Other Names : Brown Fused Aluminium Oxide, Brown Aluminum Oxide,
Brown Corundum

Country of Origin : China

Manufacturer of Material : Luoyang Zhongsen Refractory Co., Limited

Features : Clean Material, Good Chemical Content, Good Shape

Picture of Product:



Physical Specifications & Package

Main Content : Al₂O₃(Aluminum Oxide)

Specific Gravity : ≥ 3.90 g / cm³

Bulk Density : 1.4-2.3 kg / m³

Hardness : 9 MOSH

Color : Brown

Melting Point : 2300°C

Sizes Available : F8-F220, F280-F2000, other sizes to request

Package : Jumbo Bag, 25kg Bag and 40 Bags on a Pallet



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Particle Distribution & Chemical Content

Brown Fused Alumina FEPA Sizes for Bonded Abrasives and Blasting(Fixed Furnace)

Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F12	+2.80	+2.00	+1.70	+1.40	-1.18	AL ₂ O ₃	95.50%
Standard	0%	0-20%	45-100%	70-100%	0-3%	SiO ₂	1.40%	
Sample 1	0	12	59	87	0.5	TiO ₂	2.39%	
Sample 2	0	12	59	87	0.5	Fe ₂ O ₃	0.17%	
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F14	+2.36	+1.70	+1.40	+1.18	-1.00	AL ₂ O ₃	95.30%
Standard	0%	0-20%	45-100%	70-100%	0-3%	SiO ₂	1.39%	
Sample 1	0	5	62	91	0.5	TiO ₂	2.33%	
Sample 2	0	5	62	91	0.5	Fe ₂ O ₃	0.14%	
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F16	+2.00	+1.40	+1.18	+1.00	-0.85	AL ₂ O ₃	95.45%
Standard	0%	0-20%	45-100%	70-100%	0-3%	SiO ₂	1.39%	
Sample 1	0	5	52	81	0.5	TiO ₂	2.33%	
Sample 2	0	5	52	81	0.5	Fe ₂ O ₃	0.14%	
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F20	+1.70	+1.18	+1.00	+0.85	-0.710	AL ₂ O ₃	95.34%
Standard	0%	0-20%	45-100%	70-100%	0-3%	SiO ₂	1.39%	
Sample 1	0	8	56	88	0.5	TiO ₂	2.38%	
Sample 2	0	8	56	88	0.5	Fe ₂ O ₃	0.18%	
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F22	+1.40	+1.00	+0.85	+0.710	-0.600	AL ₂ O ₃	95.37%
Standard	0%	0-20%	45-100%	70-100%	0-3%	SiO ₂	1.39%	
Sample 1	0	7	51	82	0.5	TiO ₂	2.30%	
Sample 2	0	7	51	82	0.5	Fe ₂ O ₃	0.15%	
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F24	+1.18	+0.85	+0.71	+0.60	-0.50	AL ₂ O ₃	95.27%
Standard	0%	0-25%	45-100%	65-100%	0-3%	SiO ₂	1.38%	
Sample 1	0	15	53	82	0.5	TiO ₂	2.34%	
Sample 2	0	15	53	82	0.5	Fe ₂ O ₃	0.14%	



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Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F30	+1.00	+0.71	+0.60	+0.50	-0.425	AL ₂ O ₃	95.22%
	Standard	0%	0-25%	45-100%	65-100%	0-3%	SiO ₂	1.39%
	Sample 1	0	16	57	76	0.5	TiO ₂	2.21%
	Sample 2	0	15	57	75	0.5	Fe ₂ O ₃	0.20%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F36	+0.85	+0.60	+0.50	+0.425	-0.355	AL ₂ O ₃	95.33%
	Standard	0%	0-25%	45-100%	65-100%	0-3%	SiO ₂	1.39%
	Sample 1	0	6	50	88	0.5	TiO ₂	2.35%
	Sample 2	0	6	50	88	0.5	Fe ₂ O ₃	0.16%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F40	+0.710	+0.500	+0.425	+0.355	-0.300	AL ₂ O ₃	95.20%
	Standard	0%	0-30%	40-100%	65-100%	0-3%	SiO ₂	1.39%
	Sample 1	0	5	53	82	0.5	TiO ₂	2.29%
	Sample 2	0	5	53	82	0.5	Fe ₂ O ₃	0.14%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F46	+0.60	+0.425	+0.355	+0.300	-0.250	AL ₂ O ₃	95.30%
	Standard	0%	0-30%	40-100%	65-100%	0-3%	SiO ₂	1.37%
	Sample 1	0	4	45	85	0.5	TiO ₂	2.29%
	Sample 2	0	4	45	85	0.5	Fe ₂ O ₃	0.17%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F60	+0.425	+0.30	+0.25	+0.212	-0.18	AL ₂ O ₃	95.25%
	Standard	0%	0-30%	40-100%	65-100%	0-3%	SiO ₂	1.37%
	Sample 1	0	12	53	83	1.0	TiO ₂	2.28%
	Sample 2	0	12	53	83	1.0	Fe ₂ O ₃	0.15%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F70	+0.355	+0.250	+0.212	+0.180	-0.150	AL ₂ O ₃	95.18%
	Standard	0%	0-25%	40-100%	65-100%	0-3%	SiO ₂	1.39%
	Sample 1	0	17	52	80	0.5	TiO ₂	2.30%
	Sample 2	0	17	52	80	0.5	Fe ₂ O ₃	0.12%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F80	+0.300	+0.212	+0.180	+0.150	-0.125	AL ₂ O ₃	95.24%
	Standard	0%	0-25%	40-100%	65-100%	0-3%	SiO ₂	1.40%



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	Sample 1	0	21	45	75	0.5	TiO ₂	2.35%
	Sample 2	0	21	45	75	0.5	Fe ₂ O ₃	0.18%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F90	+0.250	+0.180	+0.150	+0.125	-0.106	AL ₂ O ₃	95.06%
	Standard	0%	0-20%	40-100%	65-100%	0-3%	SiO ₂	1.33%
	Sample 1	0	9	52	87	0.5	TiO ₂	2.45%
	Sample 2	0	9	52	87	0.5	Fe ₂ O ₃	0.14%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F100	+0.212	+0.150	+0.125	+0.106	-0.075	AL ₂ O ₃	95.17%
	Standard	0%	0-20%	40-100%	65-100%	0-3%	SiO ₂	1.38%
	Sample 1	0	13	50	78	0.5	TiO ₂	2.31%
	Sample 2	0	13	50	78	0.5	Fe ₂ O ₃	0.15%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F120	+0.180	+0.125	+0.106	+0.090	-0.063	AL ₂ O ₃	95.01%
	Standard	0%	0-20%	40-100%	65-100%	0-3%	SiO ₂	1.40%
	Sample 1	0	4	50	87	0.5	TiO ₂	2.37%
	Sample 2	0	4	50	87	0.5	Fe ₂ O ₃	0.15%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F150	+0.150	+0.106	+0.075	+0.063	-0.045	AL ₂ O ₃	94.28%
	Standard	0%	0-15%	40-100%	65-100%	0-3%	SiO ₂	1.42%
	Sample 1	0	4	70	83	0.5	TiO ₂	2.39%
	Sample 2	0	4	70	83	0.5	Fe ₂ O ₃	0.16%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F180	+0.125	+0.090	+0.063	+0.053		AL ₂ O ₃	95.04%
	Standard	0%	0-15%	40-100%	65-100%		SiO ₂	1.39%
	Sample 1	0	7	50	76		TiO ₂	2.39%
	Sample 2	0	7	50	76		Fe ₂ O ₃	0.16%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Analysis	
	F220	+0.106	+0.075	+0.053	+0.045		AL ₂ O ₃	94.81%
	Standard	0%	0-15%	40-100%	60-100%		SiO ₂	1.39%
	Sample 1	0	6	50	78		TiO ₂	2.45%
	Sample 2	0	6	50	78		Fe ₂ O ₃	0.16%

Tilting Furnace Material also Available



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Shape Compare (Roller & Bamarc Crushed/Milled)



Bamarc Material has higher Bulk Density better for abrasives.
