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

High Temperature Calcined Brown Fused Alumina

General Information

Product : High Temperature Calcined Brown Fused Alumina for Resin Bonded Abrasives, Vitrified Bonded Abrasives, High Grade Abrasive Tolls

Other Names : Blue Fire Brown Fused Alumina, Brown Fused Aluminium Oxide, Brown Aluminum Oxide, Brown Corundum

Country of Origin : China

Manufacturer of Material : Luoyang Zhongsen Refractory Co.,Limited

Features : Chemical Stability, High Cleanness

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	: Blue/Dark Blue
Melting Point	: 2300℃
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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Manufacturing & Application

This material is Brown Fused Alumina which is calcined(heated) under 1350°C or 1050°C temperature for 4-8 hours. Through this processing, many substances which are not good for abrasives are vaporized or separated out of the material. The material become more stable and harder to have chemical reaction during manufacturing of abrasives tools. Inner pressure is removed, single crystal is increased, less magnetic contents, tougher and stronger for ball grinding or blasting. And the material becomes blocky. By using calcined Brown Fused Alumina, you will get more production output of abrasives tools.

Applications: High Quality Grinding Wheels, Big Grinding Wheels and other Boned Abrasives Tools, High Speed Intensity Sand Belts and other Coated Abrasives Tolls

Particle Distribution & Chemical Content

Calcined Brown Fused Alumina FEPA Sizes for Bonded Abrasives(Tilting Furnace)

Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Specifications	
	F24	+1.18	+0.85	+0.71	+0.60	-0.50	AL_2O_3	95.58%
	Standard	0%	0-25%	45-100%	65-100%	0-3%	SIO_2	1.06%
	Sample 1	0	17	55	79.5	0.5	TIO_2	2.52%
	Sample 2	0	17	55	79.5	0.5	Fe_2O_3	0.07%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Specifications	
	F36	+0.85	+0.60	+0.50	+0.425	-0.355	AL_2O_3	95.55%
	Standard	0%	0-25%	45-100%	65-100%	0-3%	SIO_2	1.07%
	Sample 1	0	18	54.5	78.5	0.5	TIO_2	2.55%
	Sample 2	0	18	54.5	78.5	0.5	Fe_2O_3	0.07%
Physical Analysis	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Specifications	
	F46	+0.60	+0.425	+0.355	+0.300	-0.250	AL_2O_3	95.50%
	Standard	0%	0-30%	40-100%	65-100%	0-3%	SIO_2	1.07%
	Sample 1	0	24	50	72.5	0.5	TIO_2	2.60%
	Sample 2	0	24	50	72.5	0.5	Fe_2O_3	0.08%

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	Grit#	Max Size	Big Size	Basic Size	Mixed Size	Small Size	Chemical Specifications	
Physical Analysis	F60	+0.425	+0.30	+0.25	+0.212	-0.18	AL_2O_3	95.45%
	Standard	0%	0-30%	40-100%	65-100%	0-3%	SIO_2	1.09%
	Sample 1	0	23.5	48.5	73	0.5	TIO_2	2.62%
	Sample 2	0	23.5	48.5	73	0.5	Fe_2O_3	0.08%

Fixed Furnace material also available

Shape Compare(Roller & Bamarc Crushed/Milled)

Bamarc Matetrial has higher Bulk Density better for abrasives.