
BROWN FUSED ALUMINA

PRODUCT DATA

Description:

Brown Fused Alumina is an electrically fused high alumina aggregate. Specially selected high quality Brown Fused Alumina is custom processed through C-E Minerals Newell, W.V. operations. This process ensures a very consistent sizing from coarse to fines, which is critical in many applications.

Applications:

Brown Fused Alumina is an ideal aggregate for many high alumina refractory products including low cement castables, plastics, bricks and mortars.

Chemical Analysis (%):

	Typical
Al ₂ O ₃	94.5 (min)
TiO ₂	3.0 (max)
Fe ₂ O ₃	0.3 (max)
SiO ₂	1.5 (max)

Physical Properties:

	Typical
Bulk Density (g/cc)	3.88
Apparent Porosity %	1.5

Sizing Specifications Available from Newell, WV (% Retained)

USS Sieve	1" 25.0 mm	1/2" 12.5 mm	3/8" 9.5 mm	5/16" 8.0 mm	0.265" 6.7 mm	1/4" 6.3 mm	4 4.75 mm	5 4.0 mm	6 3.35 mm	7 2.8 mm	8 2.36 mm	10 2.0 mm	12 1.7 mm	14 1.4 mm	16 1.18 mm	18 1.0 mm	30 0.6 mm	40 0.425 mm	50 0.30 mm	70 212 µm	100 150 µm	140 106 µm	200 75 µm	325 45 µm	PAN*	
1"x1/2"	5max	80min			97min																				3max	
2 1/2x3				0-7	39-56	19-32	14-31		0-6		0-4															0-3
3/8x4			0-15	30-50	60-90		96-100																			0-4
3x6					0-5		35-55		35-55		0-10															0-5
4M							1max						25-45		6-19					30-50	2-12					0-10
4xD							0-5		20-30					43-57						20-30						0-5
4x14							0-5	10-20	25-40		25-40	10-22		5-20												0-8
6x10							0		0-15		40-60		85min													15max
6x14							0		0-10						10-20											0-10
10x30										0		0-15				60-80	85-100									0-15
14F														Tr	0-5		25-45		25-45	5-20						5-25
14+70															0-5		15-40		30-60	5-25						5-15
28x48																0-5		65-85	10-20							5-15
30F																	0-10	5-15		20-50	10-20	5-15		20-30	5-20	
70F																				20-55	10-25	5-25			20-40	
30x100																	0-10	15-40		60-90	70-90				30max	
100F																				0-10	10-25	10-25	10-25			30-55
DCF																			0-10		0-20		15-40			15-50

*PAN designates the percentage of material passing the last reported screen for each size

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