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## FUSED WHITE ALUMINA

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### PRODUCT DATA

#### Description:

C-E Minerals Fused White Alumina is produced by fusing calcined alumina in an electric arc furnace under carefully controlled conditions. The material produced is white in color, dense and has predominately large crystals of Alpha Alumina. Ingots are crushed, ground and precision sized at our plant in Andersonville, Georgia. Magnetic iron from crushing is removed by rare earth magnets to ensure extremely low levels of iron in the finished products. This process ensures a very consistent sizing from coarse to fines, which is critical in many applications.

#### Applications:

C-E Minerals Fused White Alumina can be used to produce high purity refractory shapes and monolithics, investment casting shells and for abrasive applications.

#### Chemical Analysis (%):

	Typical	Specification
Al <sub>2</sub> O <sub>3</sub>	99.64	99.4 (min)
SiO <sub>2</sub>	0.06	--
Fe <sub>2</sub> O <sub>3</sub>	0.03	--
TiO <sub>2</sub>	0.00	--
CaO	0.03	--
MgO	0.07	--
Na <sub>2</sub> O	0.15	0.2 (max)
K <sub>2</sub> O	0.02	--

#### Physical Properties:

Bulk Density (g/cc)	3.58	3.45 (min)
Apparent Porosity, %	7.80	

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## FUSED WHITE ALUMINA PRODUCT DATA

### Sizing Specifications Available from Andersonville, GA (% Retained)

USS Sieve	0.265" 6.7 mm	4 4.75 mm	6 3.35 mm	8 2.36 mm	12 1.7 mm	16 1.18 mm	20 0.85 mm	30 0.6 mm	40 0.425 mm	50 0.30 mm	60 0.25 mm	70 212 µm	100 150 µm	200 75 µm	325 45 µm	PAN*
<b>Grade</b>																
<b>3x6</b>	0-2	40-60	30-40	7-16												0-5
<b>3x8</b>	0-2	24-34	35-45	20-30	0-5											0-5
<b>6x8</b>			0-2	60-70	25-35											0-8
<b>6x14</b>			0-2	30-44	25-35	20-30	2-10									0-2
<b>8x14</b>				0-4	28-40	42-52	10-20									0-4
<b>14x28</b>						0-5	36-48	28-38	15-25							0-5
<b>28x48</b>								0-2		78-92		4-12				2-10
<b>50x100</b>								Tr	22-40	26-42		16-34	3-14	2 max		1 max
<b>3M</b>	0-2	13-23		30-44		10-20	2-10			8-18						5-15
<b>6M</b>			0-2		32-44		20-30	4-12				14-24				4-14
<b>8M</b>				0-2	15-25	15-25		20-30				14-24				10-20
<b>14M</b>						0-3	18-28	14-24	10-22			14-26	2-12			8-20
<b>28M</b>								0-4		38-48		10-20	8-18	10-20	2-10	2-10
<b>48M</b>							0			0-6	0-8		14-28	20-30	10-24	20-36
<b>50M</b>										0-8	6-17	6-18	18-30	22-38		10-25
<b>100M</b>									Tr					35-45		55-65
<b>200M</b>											Tr			15-25		75-85
<b>325M</b>												0	Tr		10 max	90 min

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

**To Order:**

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