

## Aluminum Oxide Blast Cleaning Material

Brown fused aluminum oxide abrasive is engineered to meet the requirements of pressure blast operations. Popular applications include surface preparation, coatings and paint removal, heat treat and mill scale removal, cleaning surface contaminants, imparting anchor patterns, surface blending, mold cleaning, glass etching, and monument lettering.

### MATERIAL SPECIFICATIONS

ORIGIN: China  
 HARDNESS: 2000-2200 Knoop (9.0 Mohs)  
 TRUE DENSITY: 3.96 gm/cc  
 BULK DENSITY: 112-138 lbs/ft<sup>3</sup>  
 MELTING POINT: 2000° C  
 CRYSTAL FORM: Al<sub>2</sub>O<sub>3</sub> Alpha Alumina  
 CHEMICAL NATURE: Amphoteric  
 STANDARD GRIT SIZES: 16-240 (other sizes available)

### TYPICAL CHEMICAL ANALYSIS

Al<sub>2</sub>O<sub>3</sub> 94.50%  
 TiO<sub>2</sub> 3.50  
 SiO<sub>2</sub> .63  
 Fe<sub>2</sub>O<sub>3</sub> .32

Grit Size	Sieve Range	Sieve Opening (Inches)	Sieve Opening (Millimeters)	Sieve Opening (Microns)	Surface Finish (RMS)*
16	10-25	.0787-.0280	2.00-0.71	2000-710	490
20	10-30	.0787-.0234	2.00-0.59	2000-590	440
24	14-40	.0555-.0165	1.41-0.42	1141-420	380
30	16-45	.0469-.0139	1.19-0.35	1190-350	330
36	18-50	.0394-.0117	1.00-0.297	1000-297	280
46	25-70	.0278-.0083	0.71-0.210	710-210	245
54	30-80	.0232-.0070	0.59-0.177	590-177	225
60	35-100	.0197-.0059	0.50-0.149	500-149	205
80	45-140	.0139-.0041	0.35-0.105	350-105	150
100	60-230	.0098-.0025	0.250-0.063	250-63	120
120	70-270	.0083-.0021	0.210-0.053	210-53	105
150	80-325	.0070-.0017	0.177-0.044	177-44	100
180	100-400	.0059-.0015	0.149-0.037	149-37	95
220	120-30 microns	.0049-.0012	0.125-0.030	125-30	90
240	140-20 microns	.0041-.0008	0.105-0.020	105-20	90

\*Test parameters: direct pressure machine, 70 PSI, black iron samples, 100-150 RMS original finish, 3/8" nozzle, 90-deg blast angle