

## SFAR - BROWN ALUMINUM OXIDE

Semi-friable Brown Fused Alumina ( $Al_2O_3$ ) for bonded abrasives

SFAR is a semi-friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. In order to improve its quality this material is calcined and presents low dust content. It is recommended for high performance bonded abrasives.

### Typical Physical Properties

True Specific Gravity	Knoop 100 Hardness	Toughness (ANSI-B74.8R2007)
3.94 g/cm <sup>3</sup>	1,900 kg/cm <sup>2</sup>	55%

### Typical Chemical Analysis by XRF (%)

Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>
97.72	1.18	0.52	0.15

### Types of Treatment

Not Treated	Red Coated (RC)*	Silane Treated (ST)*
SFAR R	SFARRC R	SFARST R

### Bulk Density (g/cm<sup>3</sup>)

Grit Size	(R) cubic
10	1.93
12	1.93
14	1.92
16	1.92
20	1.92
22	1.92
24	1.89
30	1.88
36	1.87
40	1.83
46	1.82
54	1.82
60	1.83
70	1.76
80	1.75
90	1.72
100	1.69
120	1.67
150	1.59
180	1.59
220	1.58

FEPA 44 - 1:2006  
 \*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm<sup>3</sup>

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