

## SFARBF - BROWN ALUMINUM OXIDE

Semi-friable, Heat Treated Brown Fused Alumina (Al<sub>2</sub>O<sub>3</sub>) for coated abrasives

SFARBF is a semi-friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. SFARBF receives heat treatment giving better grain cutting performance to increased toughness and constant replacement of edges of the grains can be used in extreme applications. This material has excellent properties for applications in sensitive steels.

### Typical Physical Properties

True Specific Gravity	Knoop 100 Hardness	Toughness (ANSI-B74.8R2007)
3.96 g/cm <sup>3</sup>	1,900 kg/cm <sup>2</sup>	51%

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

Grit Size	(L) sharp
12	1.79
16	1.79
20	1.78
24	1.78
30	1.77
36	1.79
40	1.75
50	1.71
60	1.70
80	1.65
100	1.59
120	1.57
150	1.54
180	1.49
220	1.47

### 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>
97.19	1.62	0.49	0.15

### Types of Treatment

Not Treated	Red Coated (RC)*	Silane Treated (ST)*
SFARBF L	SFARBFRC L	SFARBFST L

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\*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm<sup>3</sup>

