



# SFARBF – BROWN ALUMINUM OXIDE

## SEMI-FRIABLE, HEAT TREATED BROWN FUSED ALUMINA (AL<sub>2</sub>O<sub>3</sub>) FOR BONDED ABRASIVES

### ABOUT:

SFARBF is a semi-friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. SFARBF is heat treated in high temperatures and these procedures guarantee stress relief and high toughness. SFARBF is recommended for high performance grinding wheels.

TYPICAL CHEMICAL ANALYSIS	
Al <sub>2</sub> O <sub>3</sub>	97.40%
TiO <sub>2</sub>	1.68
SiO <sub>2</sub>	0.54
Fe <sub>2</sub> O <sub>3</sub>	0.11

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity:	4.01 g/cc
Knoop 100 Hardness:	1900 kg/cm <sup>2</sup>
Toughness:	49% (ANSI-B74.8 R2007)

TYPES OF TREATMENT	
Treatment	SHAPE
	Blocky
Not Treated	SFARBF R
Red Coated (RC)*	SFARBFRC R
Silane Treated (ST)*	SFARBFST R

BULK DENSITY (g/cc)			
Grit Size	R	Grit Size	R
10	1.86 - 1.96	50	1.75 - 1.85
12	1.86 - 1.96	60	1.75 - 1.85
14	1.85 - 1.95	70	1.71 - 1.81
16	1.84 - 1.94	80	1.70 - 1.80
20	1.84 - 1.94	90	1.67 - 1.77
24	1.82 - 1.92	100	1.65 - 1.75
30	1.83 - 1.93	120	1.62 - 1.72
36	1.83 - 1.93	150	1.54 - 1.64
40	1.75 - 1.85	180	1.54 - 1.64
46	1.75 - 1.85	220	1.53 - 1.63

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



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