



SFARBF – BROWN ALUMINUM OXIDE

SEMI-FRIABLE, HEAT TREATED BROWN FUSED ALUMINA (AL₂O₃) FOR COATED ABRASIVES

ABOUT:

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 CHEMICAL ANALYSIS

Al ₂ O ₃	97.40%
TiO ₂	1.68
SiO ₂	0.54
Fe ₂ O ₃	0.11

TYPICAL PHYSICAL PROPERTIES

Specific Gravity:	4.01 g/cc
Knoop 100 Hardness:	1900 kg/cm ²
Toughness:	45% (ANSI-B74.8 R2007)

TYPES OF TREATMENT

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

BULK DENSITY (g/cc)

Grit Size	L		
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12	1.79 - 1.89	60	1.63 - 1.73
16	1.79 - 1.89	80	1.58 - 1.68
20	1.79 - 1.89	100	1.54 - 1.64
24	1.78 - 1.88	120	1.49 - 1.59
30	1.78 - 1.88	150	1.49 - 1.59
36	1.78 - 1.88	180	1.47 - 1.57
40	1.73 - 1.83	220	1.47 - 1.57
50	1.70 - 1.80		

FEPA 44 - 1:2006

*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm³

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USEM

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Updated: 04/13