U.S. ELECTROFUSED MINERALS, INC.

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SFAR - BROWN ALUMINUM OXIDE

Semi-friable Brown Fused Alumina (Al_2O_3) for coated 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 coated abrasives.

Typical Physical Properties

True Specific Gravity	Knoop 100 Hardness	Toughness (ANSI-B74.8R2007)
3.94 g/cm³	1,900 kg/cm²	55%

Typical Chemical Analysis by XRF (%)

Al_2O_3	TiO_2	SiO_2	Fe_2O_3
97.72	1.18	0.52	0.15

Types of Treatment

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

Bulk Density (g/cm³)

Grit Size	(L) sharp
12	1.79
16	1.79
20	1.79
24	1.77
30	1.75
36	1.74
40	1.73
50	1.72
60	1.72
80	1.68
100	1.62
120	1.59
150	1.59
180	1.57
220	1.54

FEPA 44 - 1:2006
*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm³

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