

SFARBF - BROWN ALUMINUM OXIDE

Semi-friable, Heat Treated Brown Fused Alumina (Al_2O_3) for bonded abrasives

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 Physical Properties

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

Typical Chemical Analysis by XRF (%)

Al ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃
97.19	1.62	0.49	0.15

Types of Treatment

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

Bulk Density (g/cm³)

Grit Size	(R) cubic
10	1.92
12	1.91
14	1.90
16	1.89
20	1.89
22	1.89
24	1.88
30	1.88
36	1.88
40	1.80
46	1.80
54	1.80
60	1.80
70	1.80
80	1.80
90	1.72
100	1.65
120	1.67
150	1.59
180	1.59
220	1.58

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

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