ELFUSA
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BTCALST - R (Macro) >> BONDED

Brown Fused Aluminum Oxide

BTCALST is a brown fused aluminum oxide obtained by a reduction fusion of high quality bauxites in electric arc furnaces. The grits are silane coated, which promotes a better connection between the abrasive grain and phenolic resin binder. In order to improve its quality this material is calcined and present low dust content. It's recommended for high performance bonded abrasives. Produced according to ANSI or FEPA-F.

General Characteristics

True Specific Gravity	Friability (ANSI-B74.8R2007)
3.96 g/cm³	46%

Chemical Analysis by XRF (%)

Al_2O_3	TiO_2	SiO_2	Fe_2O_3	MgO
95.95	2.45	0.75	0.19	0.27

Bulk Density (g/cm³)

Grit Size	(LD) sharp	(R) cubic	(HD) super cubic
10	1.83	1.94	2.05
12	1.83	1.94	2.05
14	1.82	1.93	2.04
16	1.82	1.93	2.04
20	1.79	1.90	2.01
22	1.78	1.89	2.00
24	1.78	1.89	2.00
30	1.77	1.88	1.99
36	1.77	1.88	1.99
40	1.76	1.87	1.98
46	1.75	1.86	1.97
54	1.69	1.80	1.91
60	1.69	1.80	1.91
70	1.65	1.76	1.87
80	1.64	1.75	1.86
90	1.60	1.71	1.82
100	1.58	1.69	1.80
120	1.57	1.68	1.79
150	1.55	1.66	1.77
180	1.53	1.64	1.75
220	1.50	1.61	1.72

FEPA 44 - 1:2006

The values informed above are typical, for further information contact Applications Engineer Department.
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