

Brown Fused Aluminum Oxide

TB

TB is a friable brown fused aluminum oxide obtained from the fusion of high purity bauxites in electric arc furnaces. TB presents an excellent cost/benefit relation, being recommended for resin-bonded abrasives.

Types of Treatment

Treatment	Shape	
	Block	Super Block
Not treated	TB R	TBHD R
Red Coated (RC)*	TBRC R	TBHDRC R
Silane Treated (ST)*	TBST R	TBHDST R

General Characteristics

True Specific Gravity	Hardness (Knoop – 100)	Toughness (ANSI-B74.8R2007)
3.96 g/cm ³	1,900 kgf/cm ²	38%

Chemical Analysis by XRF (%)

AL ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃	MgO
96.30	1.63	0.94	0.77	0.12

Bulk Density (g/cm³)

Grit Size	R	HD	Grit Size	R	HD
10	1.80 – 1.90	1.88 – 1.98	54	1.68 – 1.78	1.76 – 1.86
12	1.80 – 1.90	1.88 – 1.98	60	1.67 – 1.77	1.75 – 1.85
14	1.80 – 1.90	1.88 – 1.98	70	1.66 – 1.76	1.74 – 1.84
16	1.78 – 1.88	1.86 – 1.96	80	1.65 – 1.75	1.73 – 1.83
20	1.75 – 1.85	1.83 – 1.93	90	1.63 – 1.73	1.71 – 1.81
24	1.74 – 1.84	1.82 – 1.92	100	1.63 – 1.73	1.71 – 1.81
30	1.72 – 1.82	1.80 – 1.90	120	1.63 – 1.73	1.71 – 1.81
36	1.71 – 1.81	1.79 – 1.89	150	1.60 – 1.70	1.68 – 1.78
40	1.70 – 1.80	1.78 – 1.88	180	1.58 – 1.68	1.66 – 1.76
46	1.69 – 1.79	1.77 – 1.87	220	1.58 – 1.68	1.66 – 1.76

FEPA 44 – 1:2006

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

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

Telephone: +55 19 3634-2366 - e-mail: qualidade@elfusa.com.br - www.elfusa.com.br