



## TB – BROWN ALUMINUM OXIDE

### FRIABLE BROWN FUSED ALUMINA (AL<sub>2</sub>O<sub>3</sub>) FOR BONDED ABRASIVES

#### ABOUT:

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.

#### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	96.30%
TiO <sub>2</sub>	1.63
SiO <sub>2</sub>	0.94
Fe <sub>2</sub> O <sub>3</sub>	0.77
MgO	0.12

#### TYPICAL PHYSICAL PROPERTIES

Specific Gravity:	3.96 g/cc
Knoop 100 Hardness:	1900 kg/cm <sup>2</sup>
Toughness:	38% (ANSI-B74.8 R2007)

#### TYPES OF TREATMENT

Treatment	SHAPE	
	Blocky	Super Blocky
Not Treated	TB R	TBHD R
Red Coated (RC)*	TBRC R	TBHDRC R
Silane Treated (ST)*	TBST R	TBHDST R

#### BULK DENSITY (g/cc)

Grit	R	HD	Grit	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	1.68 - 1.78
46	1.69 - 1.79	1.77 - 1.87	220	1.58 - 1.68	1.66 - 1.76

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\*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm<sup>3</sup>

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