

## BTBFRC - R (Macro) >> BONDED

### Brown Fused Aluminum Oxide

BTBFRC is a brown fused aluminum oxide obtained by a reductive fusion of high quality bauxites in electric arc furnaces. BTBFRC is heated at high temperatures, the grits turn blue and increasing toughness due to their controlled chemistry. The grits are ceramic coated, which provides an increase in the specific surface of the abrasive grain and a better adhesion between the abrasive grain and resin. BTBFRC is recommended for high performance grinding wheels. Produced according to ANSI or FEPA-F.

### General Characteristics

| True Specific Gravity  | Friability (ANSI-B74.8R2007) |
|------------------------|------------------------------|
| 3.96 g/cm <sup>3</sup> | 42%                          |

### Chemical Analysis by XRF (%)

| Al <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | MgO  |
|--------------------------------|------------------|------------------|--------------------------------|------|
| 95.71                          | 2.48             | 0.68             | 0.55                           | 0.28 |

### Bulk Density (g/cm<sup>3</sup>)

| Grit Size | (R) cubic |
|-----------|-----------|
| 10        | 1.93      |
| 12        | 1.93      |
| 14        | 1.93      |
| 16        | 1.91      |
| 20        | 1.91      |
| 22        | 1.91      |
| 24        | 1.91      |
| 30        | 1.91      |
| 36        | 1.91      |
| 40        | 1.85      |
| 46        | 1.85      |
| 54        | 1.83      |
| 60        | 1.80      |
| 70        | 1.78      |
| 80        | 1.77      |
| 90        | 1.73      |
| 100       | 1.65      |
| 120       | 1.63      |
| 150       | 1.60      |
| 180       | 1.59      |
| 220       | 1.59      |

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