ELFUSA
GERAL DE ELETROFUSÃO LTDA

Rua Júlio Michelazzo, 501 - Vila Nossa Senhora de Fátima
São João da Boa Vista - SP - Brasil 13.872-900
Telephone: +55 (19) 3634-2300 ▪ www.elfusa.com.br

FP-4160-315 - Version-02 - 02.12.2024

# BTRC - R (Macro) >> BONDED

## Brown Fused Aluminum Oxide

BTRC is a brown fused aluminum oxide obtained by a reductive fusion of high quality bauxites in electric arc furnaces. The grits are ceramic coated with iron oxide at high temperatures improving their capacity to bond each other in resin bonded cutting-off discs. BTRC can also be added in grinding wheels formulations (grits 10, 12, 14 and 16) for high stock removal ratio, substituting as far as 20% of the alumina-zirconia grits normally used in these abrasives. Produced according to ANSI or FEPA-F.

### General Characteristics

| True Specific Gravity | Friability (ANSI-B74.8R2007) |
|---|---|
| 3.96 g/cm³ | 52% |

### Chemical Analysis by XRF (%)

| $Al_2O_3$ | $TiO_2$ | $SiO_2$ | $Fe_2O_3$ | MgO |
|---|---|---|---|---|
| 95.49 | 2.46 | 0.78 | 0.59 | 0.29 |

### Bulk Density (g/cm³)

| Grit Size | (LD) sharp | (R) cubic | HD (super cubic) |
|---|---|---|---|
| 10 | 1.79 | 1.90 | 2.01 |
| 12 | 1.80 | 1.91 | 2.02 |
| 14 | 1.80 | 1.91 | 2.02 |
| 16 | 1.79 | 1.90 | 2.01 |
| 20 | 1.79 | 1.90 | 2.01 |
| 22 | 1.79 | 1.90 | 2.01 |
| 24 | 1.78 | 1.89 | 2.00 |
| 30 | 1.77 | 1.88 | 1.99 |
| 36 | 1.77 | 1.88 | 1.99 |
| 40 | 1.75 | 1.86 | 1.97 |
| 46 | 1.74 | 1.85 | 1.96 |
| 54 | 1.70 | 1.81 | 1.92 |
| 60 | 1.68 | 1.79 | 1.90 |
| 70 | 1.65 | 1.76 | 1.87 |
| 80 | 1.63 | 1.74 | 1.85 |
| 90 | 1.60 | 1.71 | 1.83 |
| 100 | 1.58 | 1.69 | 1.80 |
| 120 | 1.55 | 1.66 | 1.77 |
| 150 | 1.54 | 1.65 | 1.76 |
| 180 | 1.51 | 1.62 | 1.73 |
| 220 | 1.50 | 1.60 | 1.71 |

FEPA 44 - 1:2006

The values informed above are typical, for further information contact Applications Engineer Department.
Telephone +55 (19) 3634-2366 - e-mail: qualidade@elfusa.com.br

GRUPO CURIMBABA
www.grupocurimbaba.com.br