

# Brown Aluminium Oxide



## Brown Aluminium Oxide

Brown Aluminium Oxide is one of the hardest minerals after diamond. It is a synthetic mineral.

### Chemical Analysis

|                                        | %       |
|----------------------------------------|---------|
| Al <sub>2</sub> O <sub>3</sub>         | 95.0    |
| TiO <sub>2</sub>                       | 2.5-3.5 |
| SiO <sub>2</sub>                       | 0.6-1.2 |
| Fe <sub>2</sub> O <sub>3</sub>         | 0.4     |
| CaO and MgO                            | <0.6    |
| Na <sub>2</sub> O and K <sub>2</sub> O | <0.01   |

### Physical Data

|                                    |         |
|------------------------------------|---------|
| Particle Shape                     | Angular |
| Colour                             | Brown   |
| Specific Gravity g/cm <sup>3</sup> | 3.9-4.1 |
| Bulk Density g/cm <sup>3</sup>     | 1.5-2.1 |
| Hardness Knoop 100                 | 2000    |
| Hardness (Mohs)                    | 9.0     |

### Commodity Code

2818 109120

### Particle Sizes

| FEPA | Average (mm) | FEPA | Average (mm) |
|------|--------------|------|--------------|
| 220  | 0.05         | 46   | 0.36         |
| 180  | 0.06         | 36   | 0.50         |
| 150  | 0.08         | 30   | 0.60         |
| 120  | 0.10         | 24   | 0.70         |
| 100  | 0.13         | 20   | 1.0          |
| 90   | 0.15         | 16   | 1.2          |
| 80   | 0.18         | 14   | 1.4          |
| 70   | 0.21         | 12   | 1.7          |
| 60   | 0.26         | 10   | 2.0          |
| 54   | 0.30         | 8    | 2.4          |

not all grades may be available from stock

### Packing

25 kilo bags on pallets of 1000 kilos and bulk bags

Issue 3 May 2018

All information is given in good faith but is indicative only and does not constitute a specification.

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