

## DATA SHEET

**PRODUCT:**

**BRAND NAME:**

**DESCRIPTION AND USE:**

### White Aluminum Oxide

**AL**

AL is a white aluminum oxide obtained from the fusion of calcined alumina in electric arc furnaces. The high capability of edge reposition in AL makes it an ideal abrasive for cold abrasive operations.

AL is also recommended for refractory and ceramic applications due to its high melting point, hardness and chemical stability.

#### Typical Chemical Analysis (%)

	Al <sub>2</sub> O <sub>3</sub>	99.28
TiO <sub>2</sub>		0.01
SiO <sub>2</sub>		0.06
Fe <sub>2</sub> O <sub>3</sub>		0.08
MgO		0.03
CaO		0.05
Na <sub>2</sub> O		0.45
K <sub>2</sub> O		0.04

**Color:** White

**Crystalline Structure:** α-alumina macro crystals from trigonal class, hexagonal system.

**Fusion Temperature (°C):** 2040

**Toughness (ANSI-B.74.8.1987):** 38

**Hardness:** Knoop-100 - 1970 (Kg/mm<sup>2</sup>), Mohs - 9

**Bulk Density:** 3.61 g/cm<sup>3</sup>

**Apparent Porosity:** 6.35 %



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