

## ARMOR TOP GRIT

### CHARACTERISTICS

CRYSTAL FORM	Alpha Alumina
CHEMICAL NATURE	Amphoteric
SPECIFIC GRAVITY	3.95 g/cm <sup>3</sup>
LOOSE PACK BULK DENSITY	1.61 - 1.87 g/cm <sup>3</sup>
HARDNESS	Knoop - 2000; Mohs - 9
REACTION WITH ACIDS	Subject to mild attack by aqua regia and hot hydrochloric, less attack than brown aluminum oxide.
REACTION WITH ALKALIS	Very slight with hot strong solutions.
OXIDATION - REDUCTION EFFECTS	None
MELTING POINT	2000°C (3,630°F)

### TYPICAL CHEMICAL ANALYSIS

ALUMINUM OXIDE	(Al <sub>2</sub> O <sub>3</sub> )	99.55%
TITANIA	(TiO <sub>2</sub> )	0.01
SILICA (Not Free)	(SiO <sub>2</sub> )	0.05
IRON OXIDE	(Fe <sub>2</sub> O <sub>3</sub> )	0.04
CALCIUM OXIDE	(CaO)	0.03
MAGNESIA	(MgO)	0.02
ALKALI (Soda & Potash)		0.30

White Aluminum Oxide is somewhat more refractory than brown aluminum oxide.

### SPECIFIC SIZES

White Aluminum Oxide grains are available in the following grit sizes: 6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, 240, 280, 320, 400, 500, 600, 800, 1000, 1200.

Sizes 240 and Coarser are controlled by screen tests in accordance with American National Standards Institute (ANSI) B74.12-1976. Finer Sizes are tested by Sedimentation or Microscopic methods for conformity to established standards.