

Belmont METALS INC.

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ALUMINUM OXIDE BROWN CHARACTERISTICS

CRYSTAL FORM	Alpha Alumina
CHEMICAL NATURE	Amphoteric
SPECIFIC GRAVITY	3.95 g/cm ³
LOOSE PACK BULK DENSITY	1.69 – 2.07 g/cm ³
HARDNESS	Knoop – 2000; Mohs – 9
REACTION WITH ACIDS	Subject to mild attack by aqua regia And/or hot hydrochloric.
REACTION WITH ALKALIS	Very slight with hot strong solutions.
OXIDATION-REDUCTION EFFECTS	None
MELTING POINT	Approximately 2000°C

TYPICAL CHEMICAL ANALYSIS

ALUMINUM OXIDE	(Al ₂ O ₃)	13344-28-1	95.27%
TITANIA	(TiO ₂)	13463-67-7	2.67
SILICA (NOT FREE)	(SiO ₂)	7631-86-9	1.05
ZIRCONIA	(ZrO ₂)	1314-23-4	0.35
IRON OXIDE	(Fe ₂ O ₃)	1309-37-1	0.15
MANGANESE OXIDE	(MnO ₂)	1313-13-9	0.11
CALCIUM OXIDE	(CaO)	1305-78-9	0.05
MAGNESIA	(MgO)	1309-48-4	0.31
PHOSPHORIC OXIDE	(P ₂ O)	N/A	0.05
SULPHUR	(SO ₃)	7449-11-9	0.04
ALKALI	(Soda & Potash)	N/A	0.04

Brown 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, and 1F, 2F, 3F, 4F, and 5F. Micrograded sizes available are 27.5 microns, 25.0, 22.5, 20.0, 17.5, 14.5, 12.5, 9.5, 5.0, 3.0, 1.0.

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.

Our Second Century

