

FUSED BROWN ALUMINUM OXIDE (AL₂O₃)

Brown Fused Aluminum Oxide is a tough, long-lasting material. It is brown in color as it has a slightly higher level of impurities than white aluminum oxide. With a Mohs hardness of 9, Brown Fused Aluminum Oxide is a high strength, wear-resistant material possessing a strong ability to resist vigorous chemical attacks (such as acid and alkali) at extreme temperatures. Typical applications for the Brown Fused Aluminum Oxide include blasting and grinding.

Panadyne offers Brown Fused Aluminum Oxide in standard FEPA grading.



TYPICAL APPLICATIONS

Blasting Media	Anti-Slip
Grinding	Abrasives
Metal Preparation	Milling

TYPICAL PROPERTIES

High Hardness
High Compression Strength
Abrasive Wear-Resistance
Ability to Resist Vigorous Chemical Attacks at Extreme Temperatures
High Degree of Refractoriness
Superior Electrical Insulating Properties
Dielectric Properties
High Melting Point



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Sizes

Brown Aluminum Oxide is graded to ANSI Standards Table 2 or 3 or FEPA sized P or F. The following Grit are available:

Macro grades

ANSI, FEPA F or P 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, 240.

Micro grades

FEPA F sized : 280, 320, 360, 400, 500, 600, 800, 1000, 1200.



TYPICAL ANALYSIS

(AlO ₂)	≈ 95.5%
(TiO ₂)	2.7%
(SiO ₂) No Free	0.67%
(Fe ₂)	0.25%
Crystal Form	Alpha Alumina
Specific Gravity	3.95 gm/cc
Bulk Density	132 lbs/ ft ³ (depends on size)
Hardness	KNOPPS = 2000, MOHS = 9
Melting Point	2,000° C

