



TECHNICAL DATA SHEET

Revision: October 8, 2019

RockRidge Brown-Fused Aluminum Oxide

Product: Brown-Fused Aluminum Oxide- Blasting Grain

Description: Aluminum Oxide is manufactured in an electric arc furnace that produces an extremely tough, long-lasting grain which is graded to macrogrit exacting standards. It may be repeatedly recirculated and is chemically stable and not affected by alkalis, acids, or harmful atmospheres.

Applications: Aluminum Oxide is suitable for wet or dry surface preparation, cleaning, deburring, and cutting of various metals, ceramics, glass, wood, rubber, plastic, stone, and composite materials.

Typical Physical Characteristics:

Crystal Form	Alpha-Alumina
True Density	3.95 g/cm ³
Hardness	Knoop (100) 2500 kg/mm, Mohs 9.0
Melting Point	2000°C
Color	Brown- Tan

Typical Chemical Analysis:

Mineral	%
Aluminum Oxide	96.69 %
Titanium Dioxide (TiO ₂)	2.52 %
Silicon Dioxide (SiO ₂)	0.44 %
Iron Oxide (Fe ₂ O ₃)	0.10 %
Others (MgO, CaO, Cr ₂ O ₃)	< 0.1

Typical Bulk Density (g/cm³):

Grit	BD	Grit	BD
8	2.03-2.13	60	1.74-1.88
10	1.97-2.12	70	1.72-1.86
12	1.94-2.09	80	1.71-1.85
14	1.92-2.07	90	1.67-1.81
16	1.90-2.05	100	1.64-1.78
20	1.87-2.03	120	1.63-1.77
24	1.85-1.99	150	1.62-1.76
30	1.81-1.95	180	1.60-1.72
36	1.79-1.93	220	1.58-1.72
46	1.77-1.91	240	1.56-1.70
54	1.76-1.90		

Test Methods

Sizing	ANSI B74.12 Table II
Chemistry	ANSI B74.14
Bulk Density	ANSI B74.4

Certifications Available:

ANSI and FEPA
Agency and Mil-specs

For any questions or concerns, please contact RockRidge Abrasives at:
855-883-6245 or sales@rockridgeabrasives.com