

# GRAYSTAR LLC

A Manufacturer and Distributor of  
Abrasive Materials and Specialty Products

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## Technical Data Sheet

**Product:** Mulgrit™ 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:** Mulgrit™ 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 Chemical Analysis:**

Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	96.69%
Titanium Dioxide (TiO <sub>2</sub> )	2.52%
Silicon Dioxide (SiO <sub>2</sub> )	0.44%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.10%
Others (MgO, CaO, Cr <sub>2</sub> O <sub>3</sub> )	0.25%

**Physical Characteristics:**

Crystal Form:	Alpha-Alumina
True Density:	3.95 g/cm <sup>3</sup>
Hardness:	Knoop (100) 2050 kg/mm, Mohs 9.0
Melting Point:	2000°C
Color:	Brown – Tan

**ANSI Test Methods:**

Chemistry:	B74.14
Sizing:	B74.12 Table 3
Bulk Density:	B74.4

**Packaging & Shipping:**

Warehousing in Bluffton, SC and Niagara Falls, NY  
50 lb. paper bags  
400 lb. fiber drums grade sizes 8 – 120  
380 lb. fiber drums grade sizes 150 – 240  
2000 lb. supersacks  
Plastic pails, etc. for a surcharge (SC only)

**Bulk Density (g/cm<sup>3</sup>):**

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 - 1.74
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		

**Certifications Available:**

ANSI and FEPA  
Agency and Mil-specs  
Pratt & Whitney\*, Rolls Royce, Praxair,  
Stryker, etc.

\*Mulgrit™ is listed in all  
Pratt & Whitney specifications under  
our ISO 9001 partner company  
C-E Minerals