

GRAYSTAR[★] LLC

Ceramic Minerals and Specialty Materials

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Technical Data Sheet

Product: Mulgrit™ Brown Fused Aluminum Oxide – Bonded Abrasives and General Industrial

Description: An aluminum oxide manufactured in an electric arc furnace that produces an extremely tough, high bulk density grain which is graded to exacting standards. It may be used for all types of bonded abrasives and general industrial applications.

Applications: Mulgrit™ is particularly useful for rough grinding, deburring, snagging and cutting of low-alloy, ferrous materials. Silane coating to improve wet strength in resin wheels is available. Iron oxide (red coat) is available to increase bonding strength.

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	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)	0.25%

Physical Characteristics:

Crystal Form:	Alpha-Alumina
True Density:	3.95 g/cm ³
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 II
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/cm³):

Grit	BD	Grit	BD
8	2.03 - 2.13	60	1.78 - 1.88
10	2.02 - 2.12	70	1.76 - 1.86
12	1.99 - 2.09	80	1.75 - 1.85
14	1.97 - 2.07	90	1.71 - 1.81
16	1.95 - 2.05	100	1.68 - 1.78
20	1.93 - 2.03	120	1.67 - 1.77
24	1.89 - 1.99	150	1.66 - 1.76
30	1.85 - 1.95	180	1.64 - 1.74
36	1.83 - 1.93	220	1.62 - 1.72
46	1.81 - 1.91	240	1.60 - 1.70
54	1.80 - 1.90		

Certifications Available:

ANSI
FEPA
Customer specific

Manufacturers and Distributors of Abrasive Materials