

GRAYSTAR[★] LLC

Ceramic Minerals and Specialty Materials

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Technical Data Sheet

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

Description: A high purity abrasive electrically fused from Bayer processed alumina. This product is ideal for applications that require minimal foreign contamination or higher friability than regular brown fused aluminum oxide

Applications: Mulgrit™ white fused aluminum oxide is used for all kinds of bonded abrasives: e.g., surface grinding, external and internal cylindrical grinding, creepfeed grinding of low or unalloyed steel, etc. General industrial applications include pressure blasting, microderm abrasion, anti-skid, and lapping.

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	99.68%
Sodium Oxide (Na ₂ O)	0.14%
Silicon Dioxide (SiO ₂)	0.05%
Iron Oxide (Fe ₂ O ₃)	0.04%
Others	0.09%

Physical Characteristics:

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

ANSI Test Methods:

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

Packaging & Shipping:

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

Bulk Density (g/cm³):

Grit	BD	Grit	BD
8	no spec	60	1.63 - 1.73
10	no spec	70	1.62 - 1.72
12	1.78 - 1.88	80	1.59 - 1.69
14	1.78 - 1.88	90	1.58 - 1.68
16	1.78 - 1.88	100	1.55 - 1.65
20	1.78 - 1.88	120	1.52 - 1.62
24	1.77 - 1.87	150	1.50 - 1.60
30	1.75 - 1.85	180	1.46 - 1.56
36	1.73 - 1.83	220	1.44 - 1.54
46	1.70 - 1.80	240	1.43 - 1.53
54	1.66 - 1.76		

Certifications Available:

ANSI and FEPA
All 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

Manufacturers and Distributors of Abrasive Materials