GNPGraystar
Specialty Materials

TECHNICAL DATA SHEET
White Aluminum Oxide

Typical Chemistry

	Macrogrits	Microgrits
Aluminum Oxide (Al_2O_3)	99.78 %	99.26 %
Silicon Dioxide (SiO_2)	0.02 %	0.02 %
Sodium Dioxide (Na_2O)	0.16 %	0.60 %
Iron Oxide (Fe_2O_3)	0.04 %	0.08 %

Physical Characteristics

Crystal Form	Alpha - Alumina
True Density	3.95 g/cm^3
Melting Point	2000°C
Color	White
Hardness	Mohs: 9.0

Test Methods

Macrogrit Sizing:	ANSI B74.12 Table 2 Customer Specific Standards
Microgrit Sizing:	FEPA F Standard 42-2:2006 FEPA P Standard 43-2:2006 JIS R 6001-1987 Custom Sizes Available

Certifications Available

ANSI and FEPA (Macrogrits); FEPA and JIS (Microgrits)
Agency & Mil-Specs

Description:

GNPGraystar's White Aluminum Oxide is electrically fused in an arc furnce using Bayer process high purity alumina. The final product is used in applications where higher purity levels and lower iron content is desired as compared to brown aluminum oxide.

Applications:

GNPGraystar's White Aluminum Oxide macrogrits are used in surface grinding, external and internal cylindrical grinding, creep-feed grinding of low or unalloyed steel. General industrial applications include pressure blasting, microderm abrasion, lapping, anti-skid, and refractories.

GNPGraystar's White Aluminum Oxide microgrits are used for precision lapping, micro blasting, fine grit bond and coated applications, thermal coatings, polishing compounds, and more.

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