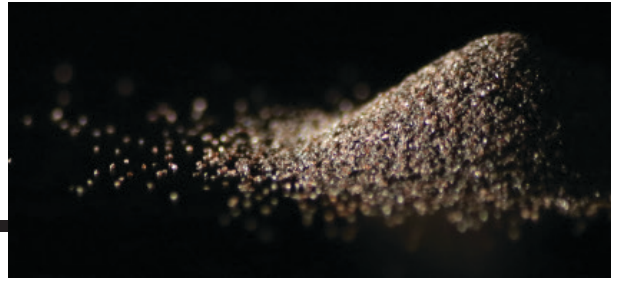




# GNP Graystar

Specialty Materials



## TECHNICAL DATA SHEET

### Brown Aluminum Oxide

#### Typical Chemistry

	Macrogrits	Microgrits
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	96.69 %	95.62 %
Titanium Oxide (TiO <sub>2</sub> )	2.52 %	2.54 %
Silicon Dioxide (SiO <sub>2</sub> )	0.44 %	1.12 %
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.10 %	0.42 %
Others	0.25 %	0.30 %

#### Physical Characteristics

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

#### Test Methods

Macrogrit Sizing:	ANSI B74.12 Table 2 ANSI B74.12 Table 3 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
Agency & Mil-Specs (such as A-A-59316 & MIL-A-22262B)
Pratt & Whitney, Rolls Royce, Praxair, Stryker, etc.

#### Description:

GNP Graystar's Brown Aluminum Oxide is fused in an electric arc furnace and produces a high strength, tough, and extremely durable grain. GNP Graystar's brown aluminum oxide is a medium to high density product which is available in standard grades or can be custom graded for your application.

#### Applications:

GNP Graystar's Brown Aluminum Oxide Macrogrits are used in all types of bonded and coated abrasive applications for ferrous and normal alloy steels. It is also used in a myriad of refractory and general industrial applications.

GNP Graystar's Brown Aluminum Oxide Microgrits are used for precision lapping, micro-blasting, fine grit bonded and coated abrasives applications, thermal coatings, and polishing compounds.

[info@GNPGraystar.com](mailto:info@GNPGraystar.com)

Rev. 02/2020

#### Northern Office

37 John Glenn Dr.  
Amherst, NY 14228  
716.759.6600

[www.GNPGraystar.com](http://www.GNPGraystar.com)

#### Southern Office

9 Simmonsville Rd.  
Bluffton, SC 29910  
843.815.5600