



# GNP Graystar

Specialty Materials



## TECHNICAL DATA SHEET

### White Fused Mullite

#### Typical Chemistry

	Typical	Guaranteed
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	76.00 %	76 ± 1 %
Silicon Dioxide (SiO <sub>2</sub> )	23.50 %	23.5 ± 1 %
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.06 %	0.10 % max.
Titanium Dioxide (TiO <sub>2</sub> )	0.01 %	0.02 % max.
Calcium Oxide (CaO)	0.02 %	0.05 % max.
Sodium Oxide (Na <sub>2</sub> O)	0.06 %	0.10 % max.

#### Physical Characteristics

Mullite Phase:	93 %
α - Al <sub>2</sub> O <sub>3</sub> Phase:	3 %
Glassy Phase:	4 %
Specific Gravity:	3.16 g/cm <sup>3</sup>
Porosity:	6 %
Max Use Temperature:	1700°C

#### Available Sizing

3-5 mm, 1-3mm, 0.5-1 mm, 0-1 mm, 0-0.5 mm, 0-0.1 mm,  
200/F, 325 F

Other sizes are available upon request.

#### Description:

GNP Graystar's White Fused Mullite is made of high-purity raw materials in electric arc furnaces. The grain is characterized by grayish color and high chemical purity. This material has low thermal expansion, outstanding thermal shock resistance, and corrosion resistance.

#### Applications:

GNP Graystar's White Fused Mullite is used in the investment casting, for producing refractories for the steel industry for the production of high purity mullite blocks for glass melting furnaces, for kiln furniture, and many other applications.

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

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**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