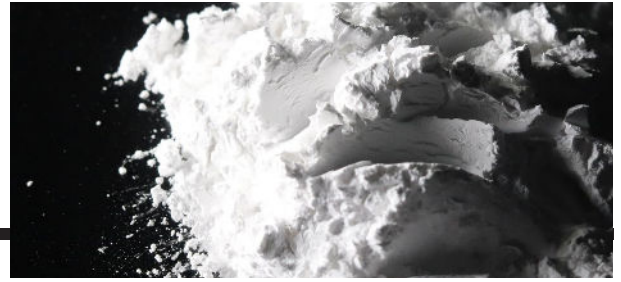




# GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET

### Sintered Magnesium-Aluminate Spinel

#### Typical Chemistry

	SP67	SP78	SP90
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	67.0%	78.0%	90.0%
Magnesium Oxide (MgO)	32.0%	21.4%	9.4%
Silicon Dioxide (SiO <sub>2</sub> )	0.13%	0.13%	0.10%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.25%	0.15%	0.15%
Calcium Oxide (CaO)	0.45%	0.20%	0.20%
Sodium Oxide (Na <sub>2</sub> O)	0.17%	0.12%	0.12%

#### Physical Characteristics (All 3 Types)

Specific Gravity:	3.20 g/cm <sup>3</sup> min.
Apparent Porosity:	1.2 - 2.6 %
Water Absorption:	1.0 % max.

#### Available Sizing

Mesh	mm
3/6	3-6
6/14	1-3
14/28	0.6-1
-14	0-1
-28	0-0.6
-170	0-0.090
-325	0-0.045
-635	0-0.020

Other sizes are available upon request.

#### Description:

GNP Graystar's Fused Magnesium-Aluminate Spinel is made of high purity raw materials in electric arc furnaces. The maximum amount of spinel crystals is achieved by using pure raw materials and electric arc furnaces. The product has a high thermal shock resistance and slag corrosion resistance, and good refractoriness.

#### Applications:

GNP Graystar's FS33 is used in the production of refractory materials used for the sinter and transit zones of rotary furnaces in the cement industry, for the arches of electric arc furnaces, for the refractory lining of high-frequency furnaces, and various kinds of torpedo ladles and other ladles used in the steel industry.

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