GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

TECHNICAL DATA SHEET
FS27
Fused Magnesium-Aluminate Spinel

Typical Chemistry

	Typical	Guaranteed
Aluminum Oxide (Al_2O_3)	72.0 %	72 ± 1 %
Magnesium Oxide (MgO)	27.0 %	27 ± 1 %
Silicon Dioxide (SiO_2)	0.06 %	0.10 % max.
Iron Oxide (Fe_2O_3)	0.17 %	0.19 % max.
Calcium Oxide (CaO)	0.22 %	0.28 % max.
Sodium Oxide (Na_2O)	0.10 %	0.18 % max.

Physical Characteristics

Specific Gravity:	3.50 g/cm^3
Apparent Porosity:	4 %
Water Absorption:	1 %
Periclase Phase:	0 %
α - Al_2O_3 Phase	1 %
Refractoriness	1900°

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:

GNPGraystar'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:

GNPGraystar's FS27 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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