



GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



TECHNICAL DATA SHEET

Silica Fume

Typical Chemistry

Silicon Dioxide (SiO ₂)	96.0 %
Free Carbon (C)	1.1 %
Free Silicon (Si)	0.12 %
Total Calcium Oxide (CaO)	0.42 %
Sulfur (SO ₂)	0.01 %
Sodium Oxide (Na ₂ O)	0.06 %
Potassium Oxide (K ₂ O)	0.38 %
Aluminum Oxide (Al ₂ O ₃)	0.11 %
Iron Oxide (Fe ₂ O ₃)	0.08 %
Magnesium Oxide (MgO)	0.29 %
Water/Moisture (H ₂ O)	0.3 %
Chlorine (Cl)	95 ppm

Physical Specifications:

pH:	7.5
Loss on Ignition (950°C / 1 hr.):	1.7 %
Specific Surface Area (BET):	20.5 m ² /g
Bulk Density:	19 lb./ft ³
> 45 microns:	2.2 %
Brightness:	47

Description:

GNP Graystar's Silica Fume is an undensified, amorphous light gray silicon dioxide powder with low impurity levels and a constant pH.

Applications:

GNP Graystar's Silica Fume is perfect for use in refractory castables, including low and medium cement, vibratables, and self-flow castables. Use of Silica Fume improves the mechanical properties (MOR, CCS, creep, etc.) of castables by acting as a flow agent of water required to place refractory castable mix.

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