

TECHNICAL DATA SHEET

PHYSICAL AND CHEMICAL PROPERTIES

State.....Amorphous - Sub-micron powder
 Solubility.....Insoluble
 Structure Flux-Calcined
 Color Gray to medium gray powder

Sieve Analysis (Tyler)

% + 150 Mesh (> 105 microns) 11.0
 % + 325 Mesh (> 44 microns) -
 Median Particle Diameter (microns) 33.0
 pH (10% Slurry) 10.0
 Free Moisture (Maximum % H2O) 0.5
 Density: (lb/ft3) (g/l)

Bulk Density-Densified(bulk and bagged (725to850kg/m3)
 Bulk Density-Undensified(bulk & paper bags)(350to452kg/m3

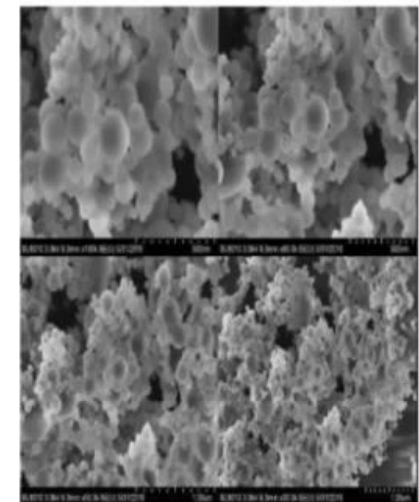
Permeability (millidarcy)* 2100
 Specific Gravity 2.33
 Refractive Index 1.46
 Brightness (Y) 84

* Determined using a VEL permeameter

CHEMICAL ANALYSIS

ASTM

SiO2	85.00%.....	89.00%
Al2O3		1.6%
Fe2O3		0.8%
CaO		0.76%
MgO.....		0.3%
TiO2		0.2%
Na2O		0.2%
P2O5		0.05%
MnO.....		0.01%
K2O		0.20%
Cr2O3		<0.01%
Loss on Ignition.....	6.0%.....	4.75%
cl.....		0.001
zno.....		0.16
moisture content	3.0%.....	1.85%



tested with Microwave plasma emission spectroscopy

SILICA FUME – TECHNICAL DATA SHEET PACKAGING, STORAGE AND HANDLING

STORAGE

SILICA FUME should be kept dry, out of weather and the elements

SILICA FUME is generally considered a nuisance dust. Use and handling of silica fume does not represent a health risk when normal safety rules are observed. Direct contact may cause irritation of eyes. Prolonged contact may cause skin irritation. Inhalation may cause respiratory irritation resulting in coughing and shortness of breath. This product may be harmful if swallowed. Do not get in eyes and avoid prolonged skin contact. Do not take internally. Wash thoroughly with water after handling. For more detail, see our SDS.

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