

# SILICA FUME HIGH PURITY

<b>Chemical Analysis</b>	
%	Typical
SiO <sub>2</sub>	96-99
Free Si	0.10-0.20
Total CaO	0.15-0.6
SO <sub>3</sub>	0.02-0.2
Na <sub>2</sub> O eq	0.01-0.25
K <sub>2</sub> O	0.05-0.3
Al <sub>2</sub> O <sub>3</sub>	0.05-1.4
Fe <sub>2</sub> O <sub>3</sub>	0.05-0.4
MgO	0.05-0.25
Cl <sup>-</sup>	< 0.01-0.04
C total	0.10-0.34
LOI (950°, 1h)	0.15-0.8
pH	6.6-7.5

<b>Physical Properties</b>	
	typical
Specific surface (BET) (m <sup>2</sup> /g)	22-29
Bulk density (kg/m <sup>3</sup> )	
Densified type DM	350-450
Densified type DP	550-650
H <sub>2</sub> O (%)	0.2-1.0
>45 µm (%)	0.10-1.50

## Other information

SILICA FUME HIGH PURITY is an off-white amorphous silica fume with a typical SiO<sub>2</sub> content of 98% and a Loss on Ignition of less than 0.4% that is used in various high end-applications requiring resistance to very high temperatures or with strict mechanical properties requirements including ready-to-use mixtures or ceramics. The very low level of impurities helps to improve the set time for castables.