

Sunsilica® Fume is a very fine pozzolanic material, composed of amorphous silica produced by electric arc furnace as a byproduct of the production of element silicon alloys. It can be used in a variety of applications such as concrete, grout, mortars, fibre cement products, refractory, oil/gas well cements, ceramics, elastomer and polymer applications. Silica Fume is produced in conformance with the IS15388:2003 specifications. The quality is controlled and monitored throughout the entire production process to ensure that it meets or exceeds specification requirements.

SPECIFICATIONS

S. No.	Parameters	Test Method	Specifications as per IS 15388:2003	Typical Values
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Chemical Requirements :-

1.	SiO ₂	IS 1727	Min. 85.00%	92.30
2.	Moisture Content	IS 1727	Max. 3.00%	1.38
3.	Loss of Ignition	IS 1727	max 4.0%	2.80
4.	Alkalies Na ₂ O	IS 15388:2003	max 1.5%	0.21

Physical Requirements:-

5.	>45 Microns	IS 1727	Max: 10.00%	5.40
6.	Pozz. Activity Index (7 Days)	IS 1727	Min. 85%	109.10
7.	Pozz. Activity Index (28 Days)	IS 1727	-	123.2
8.	Specific Surface (m ² /gm)	IS 1727	min 15 m ² /kg	15.40
9.	Bulk Density	IS 1727	550-750 Kg/m ³	680.00
10.	Specific Gravity	IS 1727	-	2.30

USAGE:

Suggested quantity is 7-10% of cementitious material in the mix design. Actual quantity can be determined by site trials.

STORAGE:

It should be kept dry, out of weather and the elements.

SAFETY AND HANDLING PRECAUTIONS:

Sunsilica 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 in 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 it in eyes and avoid prolonged skin contact. Do not take internally. Wash thoroughly with water after handling.

Sunlight Conschem Corporation

Head Office: 801 Shweta Apartments, 117/H-1/499, Pandu Nagar, Kanpur - 208 005, India
+91-9415133506, +91-9984361590, +91-9839809030

Website : www.sunlightconschem.com • Email: sales@sunlightho.com