

成都英雅玻璃纤雅有限公司

CHENGDU YINGWEI FIBERGLASS CO., LTD

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SILICA FUME

SERIES

SILICA FUME

Silica fume is a ready-to-use powdered microsilica (silica fume) concrete admixture. This product reacts chemically with the calcium hydroxide in the cement paste which yields a calcium silicate hydrate gel that significantly enhances strength and durability. The super fine microsilica fills the voids between cement particles creating a very dense, less permeable concrete.

SILICA FUME

I .BENEFITS AND USES

The benefits from Silica fume, as result of two peculiar processes: Physicalcontribution: Micro-filling, extremely fine particles filling spaces between cement crains. Chemicalcontibution: Highly effective Pozzolanic Reactivity with Calcium Hydroxide released in the hydration process of cement to form Additional Calcium-Silicate-Hydrate(C-S-H). Resulting in high strengths and durability performing concretes for hydraulic structures.viaducts. tunnels industrial flooring, airport runways, precast industry. any concrete exposed to severe amblent aggressions. Silica fume is also an excellent additive for concrete repair dry mortars and shotcrete.

II.PHYSICAL CHARACTERISTICS

Particle size:residue 45 um <5%</th>Specific surface area:23 m/gDensity:480-700 kg/m3Color:GreyR.H.:<1.0%</td>pH:Not applicable (insoluble in water)

SILICA FUME PICTURES









PRODUCT DATA

PROPERTIES	¥10	
State	Amorphous - Sub-micron powder	
Color	Gray to medium gray powder	
Specific Gravity	2.10 to 2.40	
Solubility	Insoluble	
Bulk Density - Densified	600 to 700 kg/m ³	
Bulk Density - Half-Densified	300 to 400 kg/m3	
Bulk Density - Undensified	180 to 300 kg/m ³	
SPECIFICATIONS		
	Minimum 95%	(Product Number): BKP95
Silicon Dioxide (SiO2) %	95±2%	(Product Number): BKP92
Moisture Content %	Maximum 3.0 %	
Loss on Ignition (LOI) %	Maximum 6.0 %	
Oversize percent retained on 45-µm (325 sieve)	Maximum 10.0 %	
7 day Pozzolanic strength activity index	Minimum 105%	
Specific Surface	Minimum 15 m ² /g	s
Application	Dosage Level %	
Pumping Aid	23	
Normal Concrete	47	
Self Compacting Concrete	410	
High Strength	710	
Underwater	12-15	
Shotcrete	812	

*The silica fume percentage is always given as dry weight of the cementious material

PACKAGING/STORAGE

20 Kg bags on 1200 Kg pallets

500 Kg Big Bags stackable on pallet

1000-1100 Kg Big Bags stackable on pallet Bulk in tank

The productinthe originalpackaging.stored in dry and protected area, is quaranteed for

sixmonths. It is recommended to store the product at temperatures between + $5^{\circ}C$ and + $35^{\circ}C$.

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