

CONSET MICRO SILICA

Densified Silica-Fume Admixture

Description

Conset Micro Silica is an amorphous grey silicon oxide powder, obtained by filtering the residue extracted from silicon metal production in an electric furnace. **Conset Micro Silica** fume is widely used in concrete and fibre cement industries. In addition to its pozzolanic properties, it is also a good filler due to its particle size. These combined properties lead to an extended life expectancy in aggressive environments (resistance to chloride, acid and sulphate) and improved strength.

Recommended Uses

- ✓ High-performance concrete
- ✓ Structural concrete
- ✓ Precast concrete
- ✓ Shotcrete applications

And other fields of concrete construction where great demands are required on the durability and quality of fresh and hardened concrete.

Advantages

- ✓ Improves density and impermeability
- ✓ Improves durability
- ✓ Improves strength, both early and ultimate

Packaging

20 kg PP bags.

Shelf Life & Storage

24 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Safety

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

Physical and Chemical Properties

Analysis	EN 13263-1,2	ASTM C1240	Typical	Frequency
SiO ₂ , %	Min 85	Min 85	> 85	Weekly
Free Si %	Max 0.4	-	0.14	Monthly
Free CaO, %	Max 1.0	-	< 0.1	Weekly
SO ₃ , %	Max. 2.0	-	0.25	Weekly
Na ₂ O, %	To Report	To Report	0.5	Weekly
Cl, %	Max. 0.3	-	< 0.1	Monthly
Loss on Ignition, %	Max. 4.0	Max. 6.0	2.0 -3.0	Weekly
Specific Surface Area (BET) m ² /g	15 to 35	Min. 15	<18	Monthly
Accelerated Curing, 7 days	-	Min. 105	120	Monthly
Normal Curing 28 days	Min. 100	-	110	Monthly
Bulk Density, kg/m ³		To Report	450 kg/m ³ to 550 kg/m ³	Daily
H ₂ O, %	-	Max. 3.0	0.5	Weekly
> 45 microns, %	-	Max. 10.0	< 10	-
pH	-	-	8	-

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