



General Information:

Silica fume is a pozzolanic material used to produce high performance concrete or mortar possessing increased strength, impermeability and durability. Silica fume reacts with the hydration products of Portland cement, forming calcium silicate hydrate gel, which enhances strength and durability by consuming the weaker calcium hydroxide.

CON-Fume™ silica fume has been specially developed to provide enhanced bulk material flow and handling characteristics, providing efficient bulk transportation and pneumatic unloading.

Physical Properties: (typical)

Parameter	Standard	Result
Appearance:		Light Grey Powder
Specific Gravity*:	CSA A3001	2.15
Bulk Density:	ASTM C1240	650 kg/m ³
Oversize Fineness*: 45 micron	CSA A3001	<1%
PSA Index (7 day)*:	CSA A3001	114%
Autoclave Expansion*:	CSA A3001	0.04%
Tendency to Entrap Air*:	CSA A3001	No Foam

Chemical Analysis: (typical)*

Component	Units	Standard	Result
Silicon Dioxide (SiO ₂):	wt %	CSA A3001	92.0
Sulphur Trioxide (SO ₃):	wt %	CSA A3001	0.1
Loss On Ignition (LOI):	wt %	CSA A3001	3.0
Moisture Content:	wt %	CSA A3001	0.1 – 0.5

Mixing and Handling:

Caution must be used in exposed silica fume applications as the concrete or mortar containing silica fume is darker than standard concrete.

Silica fume is very fine and dust may cause eye and respiratory irritation. Use good industrial hygiene practices (i.e. wear goggles and approved usage dust mask). For further handling and safety instructions, please consult the Material Safety Data Sheet (MSDS).

Supply:

Please contact Cementec Industries for FOB pricing to your location. CON-Fume is available in 25 lb (11.4 kg) bags or pneumatic bulk trailer shipments. Custom packaging is also available by request.

* testing performed by AMEC Earth & Environmental Ltd.

Product performance is affected by many factors including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Seller's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Seller's SOLE LIABILITY is to replace product proved defective. In no event shall Seller be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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