

XL-FUME® TECHNICAL DATA SHEET

Silica Fume



DESCRIPTION: XL Fume® is a pozzolanic material used to produce high performance concrete or mortar possessing increased strength, impermeability and durability. XL 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.

FEATURES AND BENEFITS

- Meets CSA A3001-23 for Type SF silica fume.
- Meets ASTM C1240 for Silica Fume.
- Specially developed to provide enhanced bulk material flow and handling characteristics, providing efficient bulk transportation and pneumatic handling.

PHYSICAL PROPERTIES

Property	Spec	Typical
Appearance	-	Grey Powder
Specific Gravity	-	~2.2
Bulk Density, kg/m ³	-	600-650
> 45 micron, %	Max 10	< 4
Tendency to Entrap Air	No Foam	No Foam
7 Day pozzolanic strength activity index	Min 105	110 - 125
BET Fineness, m ² /g	Min 15	18 - 21

CHEMICAL PROPERTIES

Property	Spec	Typical
SiO ₂ , %	Min 85	86-89
Loss On Ignition, %	Max 6	< 3
SO ₃ , %	Max 1	< 0.6
Alkali, Na ₂ O eq. %	-	< 2.5
Moisture Content, %	Max 3	< 1

*Independent third party certificate available

PACKAGING

- Bulk pneumatic truckloads
- 1000 kg (2204 lb.) bulk bags

APPLICATION: The typical usage is 5-15% (cement replacement). When used in bulk, pneumatic conveying and dispensing is similar to Portland cement. Further guidance is available in the Silica Fume User's Manual available from the Silica Fume Association.

SAFETY: Read the Safety Data Sheet (SDS) for this product. For professional use only. Avoid contact with skin or eyes. Avoid breathing dust. Wear a dust mask, long sleeves, safety goggles and impervious gloves.

LIMITATIONS: Performance is affected by many factors including storage and methods of application and use. User testing is ESSENTIAL to determine suitability for the intended application.

WARRANTY: 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.