

# CON-FUME® TECHNICAL DATA SHEET

## Silica Fume



**DESCRIPTION:** Con-Fume® is a pozzolanic material used to produce high performance concrete or mortar possessing increased strength, impermeability and durability. Con-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 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 <sup>3</sup>	-	600-650
> 45 micron, %	Max 10	< 3
Tendency to Entrap Air	No Foam	No Foam
7 Day pozzolanic strength activity index	Min 105	120 - 130
BET Fineness, m <sup>2</sup> /g	Min 15	18 - 21

### CHEMICAL PROPERTIES

Property	Spec	Typical
SiO <sub>2</sub> , %	Min 85	88 – 92
Loss On Ignition, %	Max 6	< 3
SO <sub>3</sub> , %	Max 1	< 0.6
Moisture Content, %	Max 3	< 1

\*Independent third party certificate available

### PACKAGING

- 11.4 kg (25 lb.) mixer ready bags.
- 1000 kg (2204 lb.) bulk bags
- Bulk pneumatic truckloads

**APPLICATION:** The typical usage is 5-15% (cement replacement). Mixer ready bags can be added directly to the concrete or may be opened and emptied into the concrete. Ensure sufficient high speed mixing to disintegrate the bag. 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:** Kryton International Inc. (Kryton) warrants that Kryton products are free from manufacturing defects and comply with the specifications given in their respective technical data sheet. Because conditions of use, such as site conditions, surface preparations, workmanship, concrete ingredients, weather, structural issues and other factors are beyond the control of Kryton, no warranty can be given as to the results of use. Purchaser agrees to seek the advice of qualified professionals and to determine for themselves the suitability of the products for their intended purpose and assumes all risks. Purchaser's sole remedy is limited to replacement of any product proven defective or at Kryton's option refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF KRYTON. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KRYTON SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of Kryton has the authority to make any representations or provision except as stated herein. Kryton reserves the right to change the properties of its products without notice.