

# TECHNICAL DATA SHEET



# SILICA FUME

**BRIGHT WHITE AMORPHOUS SILICA FUME  
WITH LOW IMPURITY LEVEL**

**40 GROSSETT DRIVE, SUITE 200, KIRKWOOD, NY 13795  
1 (800) 475-1975 • (607) 775-1948 • WWW.TRINIC.US • @TRINICLLC**   

## **DESCRIPTION**

Bright white amorphous silica fume with low impurity level.

|                                     | Typical % |
|-------------------------------------|-----------|
| SiO <sub>2</sub>                    | 85 - 90   |
| ZrO <sub>2</sub> + HfO <sub>2</sub> | 4 - 6     |
| Al <sub>2</sub> O <sub>3</sub>      | 4 - 6     |
| TiO <sub>2</sub>                    | 0.04      |
| C                                   | 0.20      |
| Fe <sub>2</sub> O <sub>3</sub>      | 0.10      |
| CaO                                 | 0.04      |
| Na <sub>2</sub> O                   | 0.06      |
| MgO                                 | 0.07      |
| Moisture                            | 0.30      |
| +325 mesh                           | 0.24      |
| pH                                  | 2.5 - 4.5 |
| Bulk Density (lbs/ft <sup>3</sup> ) | 21 - 31   |
| Color                               | White     |

## **BENEFITS OF USE**

- The most important property is the permeability, which lowers the ingress of movement of water or chemicals, and lowers the adverse reactions such as sulfate attack. The reaction between silica fume and the calcium hydroxide, released as the cement hydrates, provides a dense impermeable pore structure.
- The Silica fume reacts with the cement paste to form additional strong calcium silicate hydrate (CSH) providing higher strength.
- Silica fume reduces bleeding and enhances the cement paste bond to the aggregates. The pozzolanic effect (reaction with Ca(OH)<sub>2</sub>) improves strength.
- Complies with ASTM C1240

## **DOSAGE**

Replace 5% - 15% of your Portland Cement

## **PACKAGING**

50 lb bags

## **SHELF LIFE**

Shelf Life: 1 year

Storage: Keep in sealed container, away from moisture

## **DISPOSAL**

Follow all federal, state, and local regulations when disposing of this product.

## **LIMITATIONS**

For use in accordance with suggested mix designs

## **WARRANTY**

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufacturer / seller's option. Trinic products shall not be liable for cost of labor or direct and/or incidental consequential damages.

## **SAFETY DATA SHEET**

SDS for all Trinic products can be found on our website or by contacting us directly.