



Technical Data Sheet:

R-E-D Fume Concrete – 102 DK



R-E-D Fume 102 DK is a densified ferro silica fume. Used as a supplemental cementing material, silica fume tends to yield higher compressive and flexural strengths, increases the resistance to abrasion, erosion and chemical attack. These enhanced characteristics are achieved by the creation of calcium silicate hydrate, and the submicron particle size.

Applications: Highway bridges, parking decks, marine structures and bridge deck overlays.

Packaging: Bulk super-sacks.

Storage: Dry storage. Avoid contact with moisture.

Safety: Product totally amorphous. Safety data sheet available upon request.

Quality Control: Complies with ASTM C1240 and CSA 3000 standards.



Physical and Chemical Characteristics

ANALYSIS	Limits		
	TYPICAL	MIN	MAX
SiO ₂ (%)	90.0	85.0	94.0
Free C (%)	2.75	2.00	4.00
SO ₃ (%)	.50	< 0.01 ¹	1.00
LOI (1 hour 950° C) (%)	2.50	1.00	4.00
H ₂ O (%)	1.70	< 0.01 ¹	3.00
Fe ₂ O ₃ (%)	2.75	2.00	4.00
Total Alkalis (%)	0.80	0.30	1.25
>45 μ (%)	5.00	2.00	9.00
pH	7.2	6.0	8.5
Bulk Density (lb/ft ³)	40	25	50

¹ These values describe a mean range and do not represent a specification.

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Users must ensure that this material is suitable for their specific application despite reasonable care taken in its preparation. It is not recommended that substitutions be made without batch trialing, as this helps ensure that mixes are consistent with their intended use.