



Product Data Sheet:
R-E-D Fume Refractory - 106 UM

R-E-D Fume Refractory 106 UM is undensified silica fume, with a constant PH, it is an amorphous light gray silicon dioxide powder that has a low impurity level and is consequently perfectly adapted to refractory castable. Use of silica Fume improves the mechanical properties, the compressive strength, creep, modulus of rupture and durability (via permeability decrease).

Applications: Low and Medium Cement Refractory Castables, Vibrated or Self Consolidating Concrete (SCC).

Packaging: Bulk super-sack, 50 lb. bags, other packaging options are available on request.

Storage: Dry storage. Avoid contact with moisture.

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

Particle distribution: Available on request.

Production Site: 80 Co Rd 210, Burnsville, MS 38833 (USA).

Quality Control: Complies with the ISO 9001:2008 norm.

Environment: Complies with the ISO 14001:2000 norm.

Customer Service/Inside Sales:

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Physical and Chemical Characteristics

Limits			
Analysis	Typical	Min	Max
SiO ₂ (%)	95.0	93.0	98.1
Free C (%)	1.50	0.60	3.00
Free Si (%)	0.12	0.05	0.20
Total CaO (%)	0.42	0.19	1.00
SO ₃ (%)	0.10	< 0.01**	0.50
Na ₂ O (%)	0.10	< 0.01**	0.50
K ₂ O(%)	0.38	0.25	0.80
H ₂ O(%)	0.30	0.10	1.00
Al ₂ O ₃ (%)	0.11	< 0.01**	0.50
Fe ₂ O ₃ (%)	0.12	0.05	0.50
MgO (%)	0.29	0.05	0.60
PH	7.80	6.75	8.80
Loss on ignition (950 C During 1 hour) (%)	1.70	1.10	3.70
Specific Surface (BET) (M ² /g)	20.0	18.0	22.0
Bulk Density (lb/ft ³)	19.0	17.0	23.0
>45 μ (%)	2.20	0.50	5.00
Brightness L*	47	45	50

*% By weight of dry mass

** Lower limit Detection

