



### Product Data Sheet:

#### R-E-D Fume Oil & Gas - 104 OG

R-E-D Fume Oil & Gas 104 OG is used to make high performance concrete in the oil and gas fields. It provides better flow for easier application, decreases permeability by increasing the resistance to ion penetration and potential gas migration, provides greater enhancement in compressive and flexural strengths, durability, modulus of elasticity, and pore structure, reduces viscosity and the set time of cement based materials.

**Applications:** R-E-D Fume Oil & gas – 104 OG can be used in the grout as a hydraulic seal in the well bore, to fix leak repairs, splits, and the closing of depleted zones.

**Packing:** 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.

**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 <sub>2</sub> (%)	95.0	93.0	98.1
Free C (%)	1.50	0.60	3.50
Free Si (%)	0.12	0.05	0.20
Total CaO (%)	0.42	0.19	1.60
SO <sub>3</sub> (%)	0.10	<0.01**	0.70
Na <sub>2</sub> O (%)	0.10	<0.01**	0.50
K <sub>2</sub> O(%)	0.38	0.25	1.10
H <sub>2</sub> O(%)	0.30	0.10	1.20
Al <sub>2</sub> O <sub>3</sub> (%)	0.11	< 0.01**	0.50
Fe <sub>2</sub> O <sub>3</sub> (%)	0.12	< 0.01**	0.50
MgO (%)	0.29	0.05	0.60

pH	7.8	6.75	8.80
Loss on ignition (950 C During 1 hour) (%)	1.70	1.10	3.70
Specific Surface (BET) (M <sup>2</sup> /g)	20.0	18.0	22.0
Bulk Density (lb/ft <sup>3</sup> )	28.9	25.0	34.0
>45 μ (%)	2.20	0.50	7.00
Brightness L*	47	45	50

\*% By weight of dry mass

\*\* Lower limit Detection



It is not recommended that substitutions be made without batch trialing, this helps ensure mixes are consistent with intended use.