



Technical Silica Co.



RD-1000 Silica Fume

Oil & Gas

Product Data

RD-1000 Oil & Gas 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: RD-1000 Oil & Gas 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.

Technical Silica Company
2250 North Druid Hills Rd.
Suite 235
Atlanta, GA 30329
Phone: 404-321-0460
Fax: 404-633-0799
www.technicalco.com

Jonathan Gavant
Sales Manager
Email: jonathan@technicalco.com
Cell: 404-844-7324

Physical and Chemical Characteristics			
Analysis	Typical	Min	Max
SiO ₂ (%)	96.1	95.0	97.75
Free C (%)	1.1	0.6	2.2
Free SI (%)	0.12	0.1	0.18
Total CaO (%)	0.42	.19	.82
SO ₂ (%)	0.01	0.008	.09
Na ₂ O (%)	0.06	0.01	0.25
K ₂ O(%)	0.38	0.35	0.6
Cl(ppm)	90	50	250
Al ₂ O ₂ (%)	< 0.03**	< 0.01**	< 0.1**
Fe ₂ O ₂ (%)	0.11	< 0.1	0.25
MgO(%)	0.29	0.1	1
H ₂ O(%)	.3	.1	1.5
pH	7.5	6.75	8
Loss on ignition (950 C During 1 hour) (%)	1.7	1.1	4
Specific Surface (BET) (M ² /g)	20.5	19.5	23
Bulk Density (lbs/ft ³)	30	28	33
>45 μm	2.8	1.1	4.5
Brightness L*	47	45	50
*% By weight of dry mass			
** Lower limit Detection			

