



TECHNICAL INFORMATION



SW-101™

Description: SW-101™ is a contaminant resistant sodium bentonite for drilling, boring and tunneling applications as well as slurry wall construction where exposure to seawater is expected.

Typical Characteristics:	Bulk Density (lbs./ft³):	52 ± 3
	Cation Exchange Capacity (meq(100gm)):	70 – 90
	Color:	Light Grey to Tan
	Hydraulic Conductivity (cm/second at 6 Month Permeation):	<5 X 10 ⁻⁹
	Moisture Content (%):	5 - 12
	pH:	9.1 ± 0.4
	Sieve Analysis (% Passing #200 Sieve):	>79
	Specific Gravity:	2.55 ± 0.1
	Wet Screen Analysis (Residue on #200 Sieve):	3.0 ± 0.5

Product Performance in Seawater					
SW-101 Concentration	600 RPM	300 RPM	YP/PV	FLUID LOSS	MARSH FUNNEL VISCOSITY Seconds/Qt.
60 Kg/M ³	15	10	<2	13.7	34
70 Kg/M ³	19	11	<2	11.5	36
80 Kg/M ³	24	14	<2	9.5	3

Typical Chemical Analysis:	%
SiO ₂	60.34
Al ₂ O ₃	19.28
Fe ₂ O ₃	3.48
Na ₂ O	2.34
TiO ₂	.22
CaO	.38
MgO	1.67
K ₂ O	.10
H ₂ O	7.75
Other	.07
L.O.I.	4.37

E.P.A Toxicity Analysis:	E.P.A Standard (ppm)	Typical Analysis (ppm)
Arsenic	5.0	<0.1
Barium	100.0	0.5
Cadmium	1.0	<0.05
Chromium	5.0	<0.1
Lead	5.0	<0.1
Mercury	0.2	<0.02
Selenium	1.0	<0.05
Silver	5.0	<0.1

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