



# 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.

<b>Typical Characteristics:</b>	<b>Bulk Density (lbs./ft<sup>3</sup>):</b>	52 ± 3
	<b>Cation Exchange Capacity (meq(100gm)):</b>	70 – 90
	<b>Color:</b>	Light Grey to Tan
	<b>Hydraulic Conductivity (cm/second at 6 Month Permeation):</b>	<5 X 10 <sup>-9</sup>
	<b>Moisture Content (%):</b>	5 - 12
	<b>pH:</b>	9.1 ± 0.4
	<b>Sieve Analysis (% Passing #200 Sieve):</b>	>79
	<b>Specific Gravity:</b>	2.55 ± 0.1
	<b>Wet Screen Analysis (Residue on #200 Sieve):</b>	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 <sup>3</sup>	15	10	<2	13.7	34
70 Kg/M <sup>3</sup>	19	11	<2	11.5	36
80 Kg/M <sup>3</sup>	24	14	<2	9.5	3

Typical Chemical Analysis:	%
SiO <sub>2</sub>	60.34
Al <sub>2</sub> O <sub>3</sub>	19.28
Fe <sub>2</sub> O <sub>3</sub>	3.48
Na <sub>2</sub> O	2.34
TiO <sub>2</sub>	.22
CaO	.38
MgO	1.67
K <sub>2</sub> O	.10
H <sub>2</sub> 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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