



# TECHNICAL INFORMATION



## ENVIROPLUG® MEDIUM

**Description:** ENVIROPLUG® MEDIUM is a specially sized, high swelling, sodium bentonite for use in well sealing, abandonment, seismic shot holes, grounding rods, etc.

<b>Typical Characteristics:</b>	<b>Bulk Density (lbs./ft<sup>3</sup>):</b>	68
	<b>Cation Exchange Capacity (CEC meq(100gm):</b>	70 – 90
	<b>Colloid Content (%):</b>	>85
	<b>Color:</b>	Light Grey to Tan
	<b>Free Swell (cc/2gm):</b>	>16
	<b>Liquid Limit:</b>	504.7
	<b>Moisture Content (%):</b>	15 ± 2
	<b>pH:</b>	8.6 - 9.1
	<b>Plastic Limit (%):</b>	39.2
	<b>Plastic Index:</b>	465.5
	<b>Resistivity:</b>	2.40 ohm-meters
	<b>Specific Gravity:</b>	2.55 ± 0.1

Typical Sieve Analysis:	Sieve Size	% Retained
	½"	16.76
	⅜"	35.33
	¼"	41.41
	#4	5.91
	Pan	0.36

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

Rev 10/23

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