



# TECHNICAL INFORMATION



## MICROGEL®

**Description:** **MICROGEL®** is a powdered bentonite polymer blend specially designed for micro-tunneling and tunneling applications as the slurry fluid as well as the lubricating fluid.

Typical Characteristics:	<b>Bulk Density (lbs./ft<sup>3</sup>):</b>	52 ± 3
	<b>Color:</b>	Light Grey to Tan
	<b>Fluid Loss (cc):</b>	≤10
	<b>Free Swell (cc):</b>	24 ± 4
	<b>Moisture Content (%):</b>	5 ± 12
	<b>pH:</b>	9.1 ± 0.4
	<b>Sieve Analysis</b>	>73
	<b>(% Passing #200 Sieve):</b>	
	<b>Specific Gravity:</b>	2.55 ± 0.1
	<b>Viscometer Reading (600 RPM):</b>	50 - 80
	<b>Wet Screen Analysis</b>	<4
	<b>(% Residue on #200 Sieve):</b>	
	<b>YP/PV Ratio:</b>	≤6.0

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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