



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:	Bulk Density (lbs./ft³):	52 ± 3
	Color:	Light Grey to Tan
	Fluid Loss (cc):	≤10
	Free Swell (cc):	24 ± 4
	Moisture Content (%):	5 ± 12
	pH:	9.1 ± 0.4
	Sieve Analysis	>73
	(% Passing #200 Sieve):	
	Specific Gravity:	2.55 ± 0.1
	Viscometer Reading (600	50 - 80
	RPM):	
	Wet Screen Analysis	<4
	(% Residue on #200 Sieve):	
	YP/PV Ratio:	≤6.0

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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