



TECHNICAL INFORMATION



HYDROGEL[®] 125

Description: HYDROGEL[®] 125 is a sodium bentonite used in drilling, horizontal boring and tunneling applications as well as slurry wall and liner construction. It is also suited for use in binding, absorbing and other general applications.

Typical Characteristics:

Barrel Yield (Bbl/ton):	126 ± 4
Bulk Density (lbs./ft³):	52 ± 3
Color:	Light Grey to Tan
Fluid Loss (cc):	13 ± 2
Gel Strength (10 second):	15 ± 5
Gel Strength (10 Minute):	30 ± 5
Marsh Funnel Viscosity (sec):	45 ± 2
Moisture Content (%):	8 ± 2
pH:	9.0 ± 0.5
Sieve Analysis	>75
(% Passing #200 Sieve):	
Specific Gravity:	2.55 ± 0.1
Viscometer Reading (600 RPM):	75 ± 5
Wet Screen Analysis	3 ± 1
(% Residue on #200 Sieve):	
YP/PV Ratio:	6 Maximum

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

* "<" indicates less than method detection limit

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