



# TECHNICAL INFORMATION



## HYDROGEL<sup>®</sup> 125

**Description:** HYDROGEL<sup>®</sup> 125 is a sodium bentonite exceeding all API Spec. 13A, Section 9 requirements used in drilling, horizontal boring and tunneling applications as well as slurry wall and liner construction.

### API Spec. 13A, Section 9

**Typical Characteristics:**

<b>Barrel Yield (Bbl/ton):</b>	126 ± 4	
<b>Bulk Density (lbs./ft<sup>3</sup>):</b>	52 ± 3	
<b>Color:</b>	Light Grey to Tan	
<b>Fluid Loss (cc):</b>	13 ± 2	15
<b>Gel Strength (10 second):</b>	15 ± 5	
<b>Gel Strength (10 Minute):</b>	30 ± 5	
<b>Marsh Funnel Viscosity (sec):</b>	45 ± 2	
<b>Moisture Content (%):</b>	8 ± 2	
<b>pH:</b>	9.0 ± 0.5	
<b>Sieve Analysis</b>	>75	
<b>(% Passing #200 Sieve):</b>		
<b>Specific Gravity:</b>	2.55 ± 0.1	
<b>Viscometer Reading (600 RPM):</b>	75 ± 5	30 minimum
<b>Wet Screen Analysis</b>	3 ± 1	4% maximum
<b>(% Residue on #200 Sieve):</b>		
<b>YP/PV Ratio:</b>	2.0 ± 0.5	3 Maximum

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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