



## **SwellGel-130**

**Product Description:** Polymer Extended High Swelling Sodium Bentonite

**Product Application:** Slurry mud and general viscosifier in Asphalt Emulsion, water and oil drilling, cut-off walls, groutings, trenching and in water containment projects requiring a minimum of 130 barrels of slurry per ton of Bentonite.

<u>Chemical Analysis</u>	<u>Typical</u>	<u>Sieve Analysis</u>	<u>Typical</u>	<u>Spec.</u>
Silica as SiO <sub>2</sub>	54%	Dry Screen, (US Standard)		
Aluminum as Al <sub>2</sub> O <sub>3</sub>	19%	% Passing #200 Sieve	75%	70% min.
Calcium as CaO	9%			
Iron as Fe <sub>2</sub> O <sub>3</sub>	7%			
Sodium as Na <sub>2</sub> O	6%			
Magnesium as MgO	2%			
Potassium as K <sub>2</sub> O	2%			

<u>Other Properties</u>	<u>Typical</u>	<u>Spec.</u>	<u>Slurry Properties</u>	<u>Typical</u>	<u>Spec.</u>
Moisture Content	8%	10% max.	Viscosity: 600 rpm	33 units	30 units min
Free Swell Index	25 cc	22 cc min.	Filtrate: 22.5 min at 100 psi	23 ml	25 ml max.
Colloid Content	90%	80% min.	Marsh Funnel: sec./qt at 76° F	38sec.	36 sec. min.
Water Absorption	550%	500% min.	Yield: 42 gal. bbl of 15 cps slurry/ton	132 bbl.	130 bbl. min.
Liquid Limit	550%	500% min.	Note: Tested using API 13A method with a 4.4% Bentonite suspension		
Plastic Limit	25%	20% min.			
Plastic Index	525%	480% min.			
pH 4.4% Suspension	9.4	9.8 max.			
Bulk Density (loose)	55 lb/ft <sup>3</sup>				
Color	Lt. Brown (varies)				

### **Mixed Layer Permeability**

**Test Criteria:** Test sand containing 35-40% voids and weighing approx. 120 lbs/ft<sup>3</sup>, dry density and optimum material moisture -- ASTM D-698, tested at 95% compaction. Test leachate - distilled water. Duration - 7 Days.

#### Example #1 -- Additional Criteria

8% Bentonite by total weight  
(1.6 lbs/ft<sup>3</sup> on a 2" lift)

#### Results

1.0 x 10<sup>-7</sup> cm/sec

#### Example #2 -- Additional Criteria

15% Bentonite by total weight  
(3.0 lbs/ft<sup>3</sup> on a 2" lift)

#### Results

1.0 x 10<sup>-8</sup> cm/sec

**Testing:** Permeability testing available upon request.

**Packaging:** Available in bulk, superbags, or 80lb. multi-walled paper bags.

Manufactured By:



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To the best of our knowledge and belief, the above information is accurate. Because the conditions of handling and use are beyond our control, we cannot guarantee results, and assume no liability for damages incurred in using our product.