



PondSeal #4

Product Description: Unaltered High Swelling Sodium Bentonite

Product Application: Compacted or pure layer water containment membranes for Sewer Lagoons, Landfills, Stock Ponds, Irrigation Canals & Ponds, Cut-Off Walls, Decorative Garden Ponds, etc.

<u>Chemical Analysis</u>	<u>Typical</u>	<u>Sieve Analysis</u>	<u>Typical</u>	<u>Spec.</u>
Silica as SiO ₂	54%	Dry Screen (US Standard)		
Aluminum as Al ₂ O ₃	19%	% Passing #4 Sieve	100%	100% min.
Calcium as CaO	9%	% Passing #6 Sieve	95%	90% min.
Iron as Fe ₂ O ₃	7%	% Passing #200 Sieve	10%	15% max.
Sodium as Na ₂ O	6%			
Magnesium as MgO	2%			
Potassium as K ₂ O	2%			

<u>Other Properties</u>	<u>Typical</u>	<u>Spec.</u>
Moisture Content	8%	12% max.
Free Swell Index	14 cc	12 cc min.
Water Absorption	350%	300% min.
Liquid Limit	300%	250% min.
Plastic Limit	25%	20% min.
Plastic Index	275%	230% min.
pH 6.4% Suspension	9.6	9.8 max.
Bulk Density (loose)	75 lb/ft ³	
Color	Gray/Tan	

Mixed Layer Permeability

Test Criteria: Test sand containing 35-40% voids and weighing approx. 120 lbs/ft³, dry density and optimum material moisture -- ASTM D-698, tested at 95% compaction. Test leachate - distilled water. Duration - 7 Days

Test #1 -- Additional Criteria

15% Bentonite by total weight
(Approx. 3.0 lb/ft³ on a 2" lift)

Test #1 Results

1.0 x 10⁻⁷ cm/sec

Test #2 -- Additional Criteria

25% Bentonite by total weight
(Approximately 5.0 lbs/ft³ on a 2" lift)

Test #2 Results

1.0 x 10⁻⁸ cm/sec

Testing: Permeability testing available upon request.

Sieve Sizes: Custom screening (7/8" to 325 mesh) available upon request.

Packaging: Available in bulk, superbags, 50 or 80lb. plastic-lined, 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.