



## **PondSeal #20**

**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>Spec.</u>
Silica as SiO <sub>2</sub>	61%	Dry Screen (US	
Aluminum as Al <sub>2</sub> O <sub>3</sub>	16%	Standard)	97% min.
Calcium as CaO	1.8%	% Passing #20 Sieve	88% min.
Iron as Fe <sub>2</sub> O <sub>3</sub>	2.4%	% Passing #40 Sieve	73% min.
Sodium as Na <sub>2</sub> O	2.3%	% Passing #60 Sieve	60% min.
Magnesium as MgO	1.4%	% Passing #80 Sieve	50% min.
Potassium as K <sub>2</sub> O	1.4%	% Passing #100 Sieve	32% min.
		% Passing #200 Sieve	

<u>Other Properties</u>	<u>Typical</u>	<u>Spec.</u>
Moisture Content	8%	13% max
Free Swell Index	24 cc	1200% min
Water Absorption	350%	300% min
Liquid Limit	250%	250% min
Plastic Limit	25%	20% min
Plastic Index	275%	230% min
pH 6.4% Suspension	8.5	9.0 max
Bulk Density (loose)	68 lb/ft <sup>3</sup>	
Color	Tan/Brown	

### **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.

**Sample #1 -- Additional Criteria**

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

**Sample #1 Results**

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

**Sample #2 -- Additional Criteria**

25% Bentonite by total weight  
(Approximately 5.0 lbs/ft<sup>3</sup> on a 2" lift)

**Sample #2 Results**

1.0 x 10<sup>-8</sup> 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, or 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.