

# Akwaseal<sup>®</sup> Pond Liner

Akwaseal is CETCO's composite pond liner consisting of two water barriers-- bentonite clay and a flexible plastic membrane. The bentonite clay is sandwiched between two textiles which are needlepunched together. The membrane is permanently laminated to the outer textile surface. The result is a self-healing liner system suitable for many types of water containment projects.

MATERIAL PROPERTY	TEST METHOD	TYPICAL VALUE <sup>3</sup>
Bentonite Swell Index	ASTM D 5890	24 mL/2g
Bentonite Fluid Loss	ASTM D 5891	18 mL
Bentonite Mass/Area <sup>1</sup>	ASTM D 5993	0.50 lb/ft <sup>2</sup> (2.44 kg/m <sup>2</sup> )
Tensile Strength	ASTM D 4632	120 lbs (530 N)
Leakage Rate <sup>2</sup>	CETCO Design Method <sup>2</sup>	40 gal/acre/day (0.0014 in/day) 360 liters/hectare/day (0.036 mm/day)

## Notes

<sup>1</sup>Bentonite mass reported on dry weight basis. Finished product contains some moisture, so actual unit weight is higher.

<sup>2</sup>Maximum expected leakage rate of a complete seamed liner system, as based on lab testing. Actual performance may be higher or lower than this amount depending on site conditions and installation quality. Refer to CETCO's Akwaseal Pond Design Manual for further details.

<sup>3</sup>Typical values are based on periodic data



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## STANDARD PANEL SPECIFICATIONS

Panel Dimensions.....Width = 15 ft (4.57 m)  
 Length = 100 ft (30.5 m)  
 Total Panel Area.....1,500 sq ft (139.4 sqm)  
 Effective Area .....1,420 sq ft (132 sqm)  
 {Assumes 6 in (150 mm) edge overlap  
 and 2 ft (600 mm) end-of-roll overlap}

## STANDARD ROLL SPECIFICATIONS

Dimensions.....Length = 16 ft (4.9 m); Diameter = 22 in (559 mm)  
 Nominal Weight .....1,500 lbs (680 Kg)  
 Core Diameter .....4 in (100 mm) I.D.  
 Packaging.....2 mil (0.05 mm) polyethylene sleeve

## STANDARD SHIPPING SPECIFICATIONS

Flatbed Truck Shipment Size.....30 rolls; 45,000 sqft (4,181 sqm)  
*(All shipments will contain three stacks of rolled materials on flatbed)*

## UNLOADING AND HANDLING EQUIPMENT

Core Pipe.....Length = 18 ft (5.5 m); O.D. = 3.5 in (90 mm)  
 Strength Rating = XXH or strongest available  
*Alternatives.....Solid steel pipe with above dimensions  
 Custom-fabricated "stinger" for forklift*  
 Spreader Bar .....I-Beam supported by chains  
 Straps .....Factory-placed lifting straps available upon request



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