



PRODUCT DATA SHEET
AEC PREMIER COCONUT™ FIBRENET™

DESCRIPTION

AEC Premier Coconut FibreNet erosion control blanket (ECB) consists of coconut fibers. The fibers are evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with 100% biodegradable jute netting. The product is 100% biodegradable when biodegradable thread is ordered. AEC Premier Coconut FibreNet shall be manufactured in the U.S.A.

AEC Premier Coconut FibreNet has a design soil loss ratio (event-based RUSLE C factor) of .05 and is typically suitable for slopes up to 1H:1V. AEC Premier Coconut is rated for channel flows up to 9.0 ft/s (2.7 m/s) and 2.25 lb/ft² (108 Pa) shear stress.

PHYSICAL PROPERTIES

AEC Premier Coconut FibreNet measurements at time of manufacturing:

| | | |
|---------------------------------------|--|--|
| Width | 8.0 ft (2.4 m) | 16.0 ft (4.9 m) |
| Length | 112.5 ft (34.3 m) | 112.5 ft (34.29 m) |
| Area | 100.0 yd ² (83.6 m ²) | 200.0 yd ² (167.2 m ²) |
| Weight^a | 50.0 lb (22.7 kg) | 100.0 lb (45.4 kg) |
| Mass per Unit Area (± 10%) | 0.50 lb/yd ² (0.27 kg/m ²) | 0.50 lb/yd ² (0.27 kg/m ²) |
| Net Openings | ≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm) | ≈ 0.5 in x 1.0 in (12.7 mm x 25.4 mm) |

TYPICAL INDEX VALUES

| <u>Index Property</u> | <u>Test Method</u> | <u>Value</u> |
|--------------------------|--------------------|---|
| Thickness | ASTM D 6525 | 0.207 in (5.26 mm) |
| Light Penetration | ASTM D 6567 | 27.6% |
| Mass per Unit Area | ASTM D 6475 | 0.504 lb/yd ² (0.273 kg/m ²) |
| MD-Tensile Strength Max. | ASTM D 6818 | 228 lb/ft (3.33 kN/m) |
| TD-Tensile Strength Max. | ASTM D 6818 | 152.4 lb/ft (2.22 kN/m) |
| MD-Elongation | ASTM D 6818 | 9.3% |
| TD-Elongation | ASTM D 6818 | 10.6% |
| Water Absorption | ASTM D 1117/ECTC | 444% |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 12.61 @ 2 in/hr ^{b,c} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 17.95 @ 4 in/hr ^{b,c} |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 25.55 @ 6 in/hr ^{b,c} |
| Bench-Scale Shear | ASTM D 7207 | 2.56 lb/ft ² @ 0.5 in soil loss ^c |
| Germination Improvement | ASTM D 7322 | 338% |

^a Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of AEC Premier Coconut fibers is 20%.

^b SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. ^c Bench-scale index values should not be used for design purposes.

