American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

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/ft^2 (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

Index Property	Test Method	Value
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. [b] Bench-scale index values should not be used for design purposes.

MADE IN THE U.S.A

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