

MATERIAL PROPERTY DATA SHEET

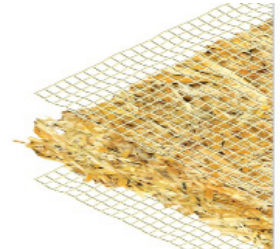


ETX-2-BN

Equivalent and Replaces: R-2AN • ECX-2B • E2000BD
Extended Term • Double Net • Excelsior Wood Matrix
Biodegradable • Erosion Control Blanket

DESCRIPTION

ETX-2-BN temporary Erosion Control Blanket is composed of a 100% weed free excelsior wood fiber matrix, where 80% of the excelsior fibers are greater than or equal to six inch (150 mm) at the time of production, mechanically (stitch) bonded on two-inch centers between two biodegradable, jute/scrims net. Thread utilized in the construction of the blanket is biodegradable cotton. ETX-2-BN blanket is recommended for applications requiring erosion protection for a period up to eighteen months. The material is fully degradable. The net, thread, and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.



Each roll of ETX-2-BN is made in the USA and manufactured under MKB's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content	
Matrix	Excelsior Wood Fiber

Netting	Top Net: Jute Scrim, Biodegradable, Leno weave
	Bottom Net: Jute Scrim, Biodegradable, Leno weave

Thread	Biodegradable Cotton or Rayon
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Standard Roll Sizes				
Width	8 ft	(2.4 m)	16 ft	(4.9 m)
Length	112 ft	(34.1 m)	562.5 ft	(168.75 m)
Weight ± 10%	60 lb	(27.0 kg)	600 lb	(270.0 kg)
Area	100 sy	(83.6 m ²)	1000 SY	(836.0 m ²)

Material available in custom roll sizes

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Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.47 in.	(12 mm)
Mass/Unit Area	ASTM D6566	9.1 oz/sy	(308 g/sm)
UV Stability	ASTM D4355 @1000hr	192 lbs/ft	(2.8 kN/m)
Light Penetration	ASTM D6567	132 lbs/ft	(1.9 kN/m)
Tensile Strength – MD	ASTM D6818	20%	
Tensile Strength – TD	ASTM D6818	20%	
Elongation - MD	ASTM D6818	N/A	
Elongation – TD	ASTM D6818	28%	
Biomass Improvement	ASTM D7322	425%	
Water Absorption	ASTM D1117	275%	

Design Parameters		
Property	Unvegetated	Vegetated ³
RUSLE C Factor	0.04	N/A
Slope Maximum Gradient ¹	1.5H:1V	N/A
Permissible Shear Stress ²	2.8 psf (85 Pa)	N/A
Permissible Velocity ²	7.0 fps (2.1 m/s)	N/A

Manning's n Roughness (HEC-15)		
τ_{lower}	τ_{mid}	τ_{upper}
0.030	0.030	0.030

1 Maximum Gradient a recommendation for typical inslations.

2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

3 Vegetated values dependent on established stand of vegetation



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