EARTH™ SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-1XNN

ES-1XNN - a Single Net Excelsior Blanket, is a temporary Erosion Control Blanket composed of a 100% Excelsior matrix mechanically stitch-bonded with cotton thread to a single cotton, jute leno weave net which is located at the top of the blanket. ES-1XNN is recommended for applications requiring erosion protection for a period of up to 12 months. The material is fully degradable. The net, thread and fiber matrix are biodegradable. Actual field longevity is dependent on soil and climatic conditions. ES-1XNN is made in the USA.

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	10 oz/sy	340 g/m^2
Thickness	ASTM D6525	281 mils	7.1 mm
Tensile Strength MD	ASTM D6818	187 lbs/ft	2.7 kN/m
Tensile Strength TD	ASTM D6818	82 lbs/ft	1.2 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	6.17	
Permanent Shear Stress[1]	ASTM D7207	2.6 psf	
Light Penetration[1]	ASTM D6567	30%	
Biomass Improvement[1]	ASTM D7322	PASS>100%	
Design Parameters			
Unvegetated RUSLE C-Factor[1,2]	ASTM D6459	0.018	
Maximum Slope Gradiant		2H:1V	
Unvegetated permissable shear strength[1,2]	ASTM D6460	1.75 psf	
Unvegetated permissable velocity[1,2]	ASTM D6460	7.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.04	0.03	0.03	

Physical Description				
Netting- top net	Jute scrim, biodegradable, leno weave			
Thread	Biodegradable cotton or rayon			
Matrix	100% excelsior			
Packaging Details				
Roll Width	8 ft	2.4 m	16 ft	4.9 m
Roll Length	101.25 ft	30.9 m	101.25 ft	30.9 m
Roll Area	90 yd^2	75.3 m^2	180 yd^2	150.5 m^2
Roll Weight	65 lbs	30 kg	131 lbs	60 kg
Packaging specifics	All rolls are wrapped tightly with stretch wrap to protect the erosion control product from weather and elements			
Classification				
FHWA	Type 2.C			
ECTC	Type 2.C			
AASHTO	Type 1A1			
Functional Longevity	12-24 months			

1- Values developed by TRI/Environmental Inc. using Bench Scale and Large Scale testing for AASHTO's National Transportation Product Evaluation Program

2-Generalized for typical applications, based on hydraulic performance with ASTM D6459 and D6460 tests.

Local Knowledge
Local Experience
Local Service, Nationwide®

Core & Main Geosynthetics
Direct Phone: 912-534-6071 Toll Free: 800-948-7870
coreandmain.com/geosynthetics