



Erosion Control BLANKET

Specification Sheet

S32

S32 from ErosionControlBlanket.com is a 100% agricultural straw blanket stitched with two photo / degradable polypropylene nets (.588x.5 inch or 1.49x1.27 cm mesh size). The “S” represents straw, the “3” represents that the blanket has an average of 270grams/square meter or .5 lbs/sy, the “2” represents that the blanket is netted on two side. The functional longevity of the blanket is approximately one year depending on moisture, light and winter conditions. The blanket is sewn together with biodegradable multifilament thread.

Performance and Index test results from Bench Scale Testing (TRI Environmental Labs)

Test Method – Description	Parameters	Test Result
ASTM D 5261 – Mass per Unit Area	Index Test	0.57 lbs/sq. yd.
ASTM D5035/ECTC – Tensile Strength MD TD	Index Test Index Test	14.9 x 8.0lbs/in 96 lbs/ft
ASTM D 5199 – Thickness	Index Test	0.34 inches
Light Penetration ECTC-Guidelines	Index Test	5%
ASTM D 1117 & ECTC-TASC 00197 – Water Absorption	Index Test	513%
ECTC Method 2 – Determination of Unvegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff Under Bench-Scale Conditions	25 mm (1 in.)/hr for 30 min. 75 mm (3 in.)/hr for 30 min. 125 mm (5 in.)/hr for 30 min.	Soil Loss Ratio* = 11.1 Soil Loss Ratio* = 10.0 Soil Loss Ratio* = 8.33
ECTC Method 3 – Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions	Regression (power curve)	2.0 psf @ ½ in. soil loss (not to be used as a design value)
ECTC Draft Method 4 – Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	Top soil; Fescue (Kentucky 31); 21 day incubation; 27±2° & approximately 65% RH	Improvement = 237% (increased biomass)
*Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: Soil loss is based on regression analysis)		

Large Scale Testing (Reported by Ayres Associates)

Based on Least-squares analysis of soil loss vs. rainfall-runoff erosivity the “C” factor for S32 for loam is 0.055

The maximum shear stress on the channel bed that corresponds to the testing value is 1.87 lb/sq.ft.

Minimum Manning’s ‘n’ value = 0.022, Max Manning’s ‘n’ = 0.032

More information upon request.