Winters Excelsior Company

Material Specifications

WinterStraw™

SNG - Single Net-Green
SNW - Single Net-White
Bio - Single Net-Jute

WinterStraw™ Single Net Products are short term, single top net erosion control blankets that are machine-assembled using 100% agricultural straw fibers. The straw fibers are evenly distributed throughout the entire area of the blanket to a rough thickness of 3/8" and stitched to your choice of netting using high strength degradable thread. Biodegradable thread is used on our Bio (Jute) products.

Each blanket is covered on the top with a single photodegradable polypropylene or jute. Net openings are approximately ½" wide x ½" long and are stitched on 1 ½" centers for increased performance capabilities.

Netting options:	**Functional Longevity**
Green Net – Standard photodegradable polypropylene netting.	12 Months
White Net – Rapidly degrading, polypropylene netting with a UV degrader additive.	45-90 Days
Jute Net – Biodegradable jute fiber netting.	12-18 Months

All WinterStraw™ blankets are individually labeled and shrink-wrapped to protect against the weather and damage.

Materials:

100% Certified Weed Free Straw
Photodegradable polypropylene Netting /Biodegradable Jute Netting (Leno Weave)
Degradable polypropylene Thread / Biodegradable Cotton Thread

Roll Sizes:

Area:	**100 yd²**	**200 yd²**	**500 yd²**	**1000 yd²**
Width:	8 feet	16 feet	8 feet	16 feet
Length:	112.5 feet	112.5 feet	562.5 feet	562.5 feet
Weight:	50 lbs.	100 lbs.	250 lbs.	500 lbs.

Physical Characteristics:

Fiber:	100% Certified Weed Free Agricultural Straw
Unit Weight:	Minimum of 0.50 lb./yd²
Thread Material:	High Tensile Polypropylene or High Strength Biodegradable Thread
Thread Pattern:	1.5" wide x 4" long
Netting:	Polypropylene (green or white) or Jute Netting
Net Openings:	½" wide x ½" long
Net Configuration:	Top Side Only

Performance Characteristics:

Winterstraw™ blankets are designed to provide temporary ground cover to reduce erosion, protect seeding, enhance germination, and speed re-vegetation. Functional longevity is between 3 and 12 months depending on soil conditions, climate, geography, and choice of netting. Testing shows SNG, SNW, and Bio blankets are suitable for the following applications:

Slopes: up to 3:1 **Channel flows:** up to 4.5 ft per second **Shear Stress:** up to 1.5 lbs./ft².

All figures are based on product at the time it is manufactured.

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WinterStraw™ ~ Single Net Performance Data Sheet

WinterStraw™ blankets are constructed of 100% Natural Straw fibers stitched to a single photodegradable polypropylene net using degradable thread. WinterStraw™ Bio blankets offer biodegradable Jute netting and high tensile biodegradable thread. Our blankets are designed to protect against erosion by providing temporary ground cover while enhancing seed germination and assisting with vegetation establishment.
Functional longevity is as short as 45 days and up to 12 months depending on product used and site conditions. Soil erosion is controlled by the root system, stem and leaf structure of the mature vegetation after the blankets degrade.

WinterStraw Single Net blankets are rated for channel flows up to 4.5 feet per second and 1.55 lbs./ft² shear stress. Additionally, our blankets have a design C-Factor of .05 and are typically appropriate for up to 3:1 slopes.

Additional Physical Properties as tested and observed:

Property	Test Method	MARV*
Mass per Unit Area	ASTM D 6475	8.32 oz./yd²
Thickness	ASTM D 6525	0.33 inches
Light Penetration	ASTM D 6567	35 %
Water Absorption	ASTM D 1117/ECTC-TASC 00197	399%

ECTC Bench Scale Testing **

Description of Test Method	Test Method	Results
ECTC Method 2 -Determination of un-vegetated RECP ability to protect soil from Rain Splash and associated runoff.	2 in. (50mm)/hr. for 30 minutes 4 in. (100mm)/hr. for 30 minutes 6 in. (150mm)/hr. for 30 minutes	Soil Loss Ratio = 4.80 Soil Loss Ratio = 6.59 Soil Loss Ratio = 9.05
ECTC Method 3 – Determination of un-vegetated RECP ability to protect soil from Hydraulically Induced Shear stress.	Shear Loss Curve Intercept/Bench Scale	1.55psf@ ½" soil loss
ECTC Method 4 – Determination of Temporary Degradable RECP performance in encouraging seed germination and plant growth.	% Improvement/Increased Biomass	133%

* Minimum Average Roll Values (MARV) are calculated as an average of values of rolls taken during quality assurance testing.
** Soil Loss Ratios, as reported by NTPEP = Soil Loss Bare Soil/Soil Loss with RECP (Note: soil loss is based on regression analysis)

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