

MATERIAL PROPERTY DATA SHEET

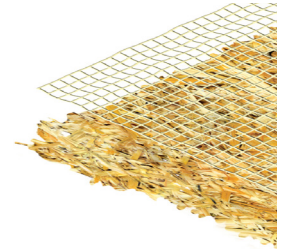


BioNet® S75BN™

Short Term • Single Net • Straw Matrix •
Biodegradable • Erosion Control Blanket

DESCRIPTION

S75BN temporary Erosion Control Blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bonded on two-inch centers to a single biodegradable, jute/scrim net. Thread utilized in the construction of the blanket is biodegradable cotton. S75BN blanket is recommended applications requiring erosion protection for a period up to twelve 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 S75BN is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content

Matrix	Straw
Netting	Jute Scrim, Biodegradable, Leno weave Single Net
Thread	Biodegradable Cotton or Rayon

Standard Roll Sizes

Width	8 ft (2.4 m)	16 ft (4.9 m)
Length	112 ft (34.1 m)	563 ft (171.0 m)
Weight ± 10%	50 lb (22.7 kg)	500 lb (227.0 kg)
Area	100 sy (83.6 m ²)	1000 SY (836.0 m ²)

Material available in custom roll sizes

Approvals & Classification

Classification	FHWA: Type 2.C / ECTC: Type 2.C
TTI Approvals	Class 1 Type A, C
NTPEP Number	ECP-2018-04-002

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Index Property Test Method Typical

Thickness	ASTM D6525	0.28 in. (7 mm)
Mass/Unit Area	ASTM D6566	8.0 oz/sy (275 g/sm)
Tensile Strength – MD	ASTM D6818	125 lbs/ft (1.8 kN/m)
Tensile Strength – TD	ASTM D6818	90 lbs/ft (1.3 kN/m)
Elongation - MD	ASTM D6818	15%
Elongation – TD	ASTM D6818	15%
Density/Specific Gravity	D792	N/A
Light Penetration	ASTM D6567	15%
Biomass Improvement	ASTM D7322	375%
Water Absorption	ASTM D1117	400%

Design Parameters

Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.02	N/A
Slope Maximum Gradient ¹	3H:1V	N/A
Permissible Shear Stress ²	1.6 psf (75 Pa)	N/A
Permissible Velocity ²	5.0 fps (1.5 m/s)	N/A

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ_{upper}
0.040	0.030	0.030

- 1 Maximum Gradient a recommendation for typical installations.
- 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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Scan for additional and updated product information, or [click here](#).





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aspent.com

salesasp@aspent.com

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1099 Cassens Industrial Ct.
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636-343-4357

KANSAS CITY

5301 E 59th St.
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816-554-1191

OMAHA

15263 Cooper St.
Omaha, NE 68138
402-861-8579

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316-393-1554

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1906 E Service Rd. HWY 61 N
Wentzville, MO 63385
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QUICK SUPPLY CO.

quicksupplyco.com

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DES MOINES

6620 NW Toni Dr.
Des Moines, IA 50313
515-289-1271

BOWMAN CONSTRUCTION SUPPLY

bowmanconstructionsupply.com

salesbcs@bowmanconstructionsupply.com

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10801 E. 54th Ave.
Denver, CO 80239
303-696-8960

COLORADO SPRINGS

2445 Wayside Ct.
Colorado Springs, CO 80915
719-257-7840

LOVELAND

4495 Woods Ave.
Loveland, CO 80538
970-535-0863

CASCADE GEOSYNTHETICS

cascadageos.com

salescascade@cascadageos.com

PORTLAND

3610 N. Suttle Rd. Bldg B
Portland, OR 97217
971-339-1020

SALT LAKE CITY

425 N. Neil Armstrong Rd.
Salt Lake City, UT 84116
435-276-0820

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