



**PRODUCT DATA SHEET**  
**TRINET™ STRAW/COCONUT**

**DESCRIPTION**

TriNet Straw/Coconut is a three dimensional biocomposite Turf Reinforcement Mat (TRM) that consists of a blend of 70% straw and 30% coconut fibers. The straw fibers used in the product are the finest available agricultural straw with 75% four-inch fibers or greater fiber length, and are certified weed seed free. The blended fibers are evenly distributed throughout the entire area of the TRM. The top, middle, and bottom nets of each TRM are stitched together forming a permanent three dimensional (TRM). TriNet Straw/Coconut shall be manufactured in the U.S.A.

TriNet Straw/Coconut has a design soil loss ratio (event-based RUSLE C factor) of .026 and is typically suitable for slopes up to .5H:1V. TriNet Straw/Coconut is rated for channel flows up to 15.0 ft/s (4.57 m/s) and 10.0 lb/ft<sup>2</sup> (480 Pa) shear stress.

**PHYSICAL PROPERTIES**

TriNet Straw/Coconut measurements at time of manufacturing:

|                                     |   |  |  |
|-------------------------------------|---|--|--|
| <b>Width</b>                        |   | 8.0 ft (2.4 m)   | 16.0 ft (4.9 m)  |
| <b>Length</b>                       |   | 90.0 ft (27.4 m)                                       | 90.0 ft (27.4 m)                                       |
| <b>Area</b>                         |   | 80.0 yd <sup>2</sup> (66.9 m <sup>2</sup> )            | 160.0 yd <sup>2</sup> (133.8 m <sup>2</sup> )          |
| <b>Weight<sup>a</sup></b>           |   | 61.6 lb (27.94 kg)                                     | 123.2 lb (55.88 kg)                                    |
| <b>Straw/Coconut Matrix (± 10%)</b> |   | 0.500 lb/yd <sup>2</sup><br>(0.271 kg/m <sup>2</sup> ) | 0.500 lb/yd <sup>2</sup><br>(0.271 kg/m <sup>2</sup> ) |
| <b>Product Weight (± 10%)</b>       |   | 0.770 lb/yd <sup>2</sup><br>(0.418 kg/m <sup>2</sup> ) | 0.770 lb/yd <sup>2</sup><br>(0.418 kg/m <sup>2</sup> ) |
| <b>Net Openings</b>                 | Top - Heavy Duty Polypropylene (UV-Stabilized)          | 0.5 in x 0.51 in<br>(12.7 mm x 13.0 mm)                | 0.5 in x 0.51 in<br>(12.7 mm x 13.0 mm)                |
|                                     | Middle - Ultra Heavy Duty Polypropylene (UV-Stabilized) | 0.454 in x 0.588 in<br>(11.54 mm x 14.94 mm)           | 0.454 in x 0.588 in<br>(11.54 mm x 14.94 mm)           |
|                                     | Bottom - Heavy Duty Polypropylene (UV-Stabilized)       | 0.5 in x 0.51 in<br>(12.7 mm x 13.0 mm)                | 0.5 in x 0.51 in<br>(12.7 mm x 13.0 mm)                |

**TYPICAL INDEX VALUES**

| <b>Index Property</b>    | <b>Test Method</b>     | <b>Value</b>  |
|--------------------------|------------------------|---|
| Thickness                | ASTM D 6525            | 0.344 in (8.74 mm)                                  |
| Light Penetration        | ASTM D 6567            | 3.5%  |
| Resiliency               | ASTM D 1777/ECTC       | 83%   |
| Mass per Unit Area       | ASTM D 6475            | 0.824 lb/yd <sup>2</sup> (0.447 kg/m <sup>2</sup> ) |
| MD-Tensile Strength Max. | ASTM D 6818            | 553.2 lb/ft (8.07 kN/m)                             |
| TD-Tensile Strength Max. | ASTM D 6818            | 439.2 lb/ft (6.41 kN/m)                             |
| MD-Elongation            | ASTM D 6818            | 17.2%   |
| TD-Elongation            | ASTM D 6818            | 13.7%   |
| Swell                    | ECTC Procedure         | 31%   |
| Water Absorption         | ASTM D 1117/ECTC       | 438.6%  |
| Specific Gravity         | ASTM D 792             | 0.916   |
| UV Stability             | ASTM D 4355 (1,000 hr) | 90% minimum   |
| Porosity                 | ECTC Procedure         | 96.95%  |
| Stiffness                | ASTM D6575             | 1.04 oz-in  |

<sup>a</sup> Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content Straw and Coconut fibers are 15% and 20%, respectively.

