



The Pioneer Of Geosynthetics  
S I N C E 1 9 7 2

## GSE FabriNet UF Geocomposite

GSE FabriNet UF geocomposite consists of a 300 mil thick GSE HyperNet UF geonet heat-laminated on one or both sides with a GSE nonwoven needlepunched geotextile. The geotextile is available in mass per unit area range of 6 oz/yd<sup>2</sup> (200 g/m<sup>2</sup>) to 16 oz/yd<sup>2</sup> (540 g/m<sup>2</sup>). The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.

### Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE VALUE <sup>(1)</sup>		
			6 oz/yd <sup>2</sup>	8 oz/yd <sup>2</sup>	10 oz/yd <sup>2</sup>
<b>Geocomposite</b>					
Transmissivity <sup>(2)</sup> , gal/min/ft (m <sup>2</sup> /sec)	ASTM D 4716	1/540,000 ft <sup>2</sup>			
Double-Sided Composite			4.35 (9 x 10 <sup>-4</sup> )	4.35 (9 x 10 <sup>-4</sup> )	3.40 (7 x 10 <sup>-4</sup> )
Single-Sided Composite			14.5 (3 x 10 <sup>-3</sup> )	14.5 (3 x 10 <sup>-3</sup> )	9.6 (2 x 10 <sup>-3</sup> )
Ply Adhesion, lb/in (g/cm)	ASTM D 7005	1/50,000 ft <sup>2</sup>	1.0 (178)	1.0 (178)	1.0 (178)
<b>Geonet Core<sup>(3)</sup> - GSE HyperNet UF</b>					
Transmissivity <sup>(2)</sup> , gal/min/ft (m <sup>2</sup> /sec)	ASTM D 4716		38.64 (8 x 10 <sup>-3</sup> )	38.64 (8 x 10 <sup>-3</sup> )	38.64 (8 x 10 <sup>-3</sup> )
Density, g/cm <sup>3</sup>	ASTM D 1505	1/50,000 ft <sup>2</sup>	0.94	0.94	0.94
Tensile Strength (MD), lb/in (N/mm)	ASTM D 5035/7179	1/50,000 ft <sup>2</sup>	75 (13.3)	75 (13.3)	75 (13.3)
Carbon Black Content, %	ASTM D 1603*/4218	1/50,000 ft <sup>2</sup>	2.0	2.0	2.0
<b>Geotextile<sup>(3,4)</sup></b>					
Mass per Unit Area, oz/yd <sup>2</sup> (g/m <sup>2</sup> )	ASTM D 5261	1/90,000 ft <sup>2</sup>	6 (200)	8 (270)	10 (335)
Grab Tensile, lb (N)	ASTM D 4632	1/90,000 ft <sup>2</sup>	160 (710)	220 (975)	260 (1,155)
Puncture Strength, lb (N)	ASTM D 4833	1/90,000 ft <sup>2</sup>	90 (395)	120 (525)	165 (725)
AOS, US sieve (mm)	ASTM D 4751	1/540,000 ft <sup>2</sup>	70 (0.212)	80 (0.180)	100 (0.150)
Permittivity, (sec <sup>-1</sup> )	ASTM D 4491	1/540,000 ft <sup>2</sup>	1.5	1.3	1.0
Flow Rate, gpm/ft <sup>2</sup> (lpm/m <sup>2</sup> )	ASTM D 4491	1/540,000 ft <sup>2</sup>	110 (4,480)	95 (3,865)	75 (3,050)
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	once per formulation	70	70	70
<b>NOMINAL ROLL DIMENSIONS</b>					
Geonet Core Thickness, mil (mm)	ASTM D 5199	1/50,000 ft <sup>2</sup>	300 (7.6)	300 (7.6)	300 (7.6)
Roll Width <sup>(5)</sup> , ft (m)			15 (4.5)	15 (4.5)	15 (4.5)
Roll Length <sup>(5)</sup> , ft (m)	Double-Sided Composite		180 (54.9)	170 (51.8)	160 (48.8)
	Single-Sided Composite		220 (67.1)	220 (67.1)	200 (61.0)
Roll Area, ft <sup>2</sup> (m <sup>2</sup> )	Double-Sided Composite		2,700 (251)	2,550 (237)	2,400 (223)
	Single-Sided Composite		3,300 (307)	3,300 (307)	3,000 (279)

#### NOTES:

- <sup>(1)</sup>AOS in mm is a maximum value.
- <sup>(2)</sup>Gradient of 0.1, normal load of 10,000 psf, water at 70°F between steel plates for 15 minutes. Contact GSE for performance transmissivity value for use in design.
- <sup>(3)</sup>Component properties prior to lamination.
- <sup>(4)</sup>Refer to geotextile product data sheet for additional specifications.
- <sup>(5)</sup>Roll widths and lengths have a tolerance of ±1%.
- \*Modified.