

# GSE FabriNet 275 mil Geocomposite

GSE FabriNet 275 geocomposite consists of a 275 mil thick GSE HyperNet geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. The geotextile is available in mass per unit area range of 6 oz/yd<sup>2</sup> to 16 oz/yd<sup>2</sup>. The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.



**AT THE CORE:**  
A 275 mil thick GSE HyperNet geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

## Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll 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>	3.4 (7 x 10 <sup>-4</sup> )	3.4 (7 x 10 <sup>-4</sup> )	2.4 (5 x 10 <sup>-4</sup> )
Double-Sided Composite			9.6 (2 x 10 <sup>-3</sup> )	9.6 (2 x 10 <sup>-3</sup> )	7.2 (1.5 x 10 <sup>-3</sup> )
Single-Sided Composite					
Ply Adhesion, lb/in	ASTM D 7005	1/50,000 ft <sup>2</sup>	1.0	1.0	1.0
<b>Geonet Core<sup>(1,3)</sup> - GSE HyperNet</b>					
Geonet Core Thickness, mil	ASTM D 5199	1/50,000 ft <sup>2</sup>	275	275	275
Transmissivity <sup>(2)</sup> , gal/min/ft (m <sup>2</sup> /sec)	ASTM D 4716		29 (6 x 10 <sup>-3</sup> )	29 (6 x 10 <sup>-3</sup> )	29 (6 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	ASTM D 7179	1/50,000 ft <sup>2</sup>	65	65	65
Carbon Black Content, %	ASTM D 4218	1/50,000 ft <sup>2</sup>	2.0	2.0	2.0
<b>Geotextile<sup>(1,3)</sup></b>					
Mass per Unit Area, oz/yd <sup>2</sup>	ASTM D 5261	1/90,000 ft <sup>2</sup>	6	8	10
Grab Tensile Strength, lb	ASTM D 4632	1/90,000 ft <sup>2</sup>	160	220	260
Grab Elongation	ASTM D 4632	1/90,000 ft <sup>2</sup>	50%	50%	50%
CBR Puncture Strength, lb	ASTM D 6241	1/540,000 ft <sup>2</sup>	435	575	725
Trapezoidal Tear Strength, lb	ASTM D 4533	1/90,000 ft <sup>2</sup>	65	90	100
AOS, US sieve <sup>(3)</sup> (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
Water Flow Rate, gpm/ft <sup>2</sup>	ASTM D 4491	1/540,000 ft <sup>2</sup>	110	95	75
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70	70	70
<b>NOMINAL ROLL DIMENSIONS<sup>(4)</sup></b>					
Roll Width, ft			15	15	15
Roll Length, ft	Double-Sided Composite		212	200	190
	Single-Sided Composite		240	240	230
Roll Area, ft <sup>2</sup>	Double-Sided Composite		3,180	3,000	2,850
	Single-Sided Composite		3,600	3,600	3,450

NOTES:

- <sup>(1)</sup>All geotextile properties are minimum average roll values except AOS which is maximum average roll value and UV resistance is typical value. Geonet core thickness is nominal 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>Roll widths and lengths have a tolerance of ±1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



**[ DURABILITY RUNS DEEP ]** For more information on this product and others, please visit us at [GSEworld.com](http://GSEworld.com), call 800.435.2008 or contact your local sales office.