

GSE Nonwoven Geotextile

METRIC

GSE Nonwoven Geotextile is a family of staple fiber needlepunched geotextiles. The geotextiles are manufactured using an advanced manufacturing and quality system to produce the most uniform and consistent nonwoven needlepunched geotextile currently available in the industry. GSE combines a fiber selection and approval system with an in-line quality control and a state-of-the-art laboratory to ensure that every roll shipped meets customer specifications.



AT THE CORE:

A family of geotextiles used for separation, filtration, protection and drainage applications.

Product Specifications

These product specifications meet GRI GT12, GRI GT13 and AASHTO M288

Tested Property ⁽¹⁾	Test Method	Frequency	Minimum Average Roll Value					
			NW4	NW6	NW8	NW10	NW12	NW16
AASHTO M288 Class			3	2	1	> 1	>> 1	>>> 1
Mass per Unit Area, g/m ²	ASTM D 5261	8,300 m ²	135	200	270	335	405	540
Grab Tensile Strength, N	ASTM D 4632	8,300 m ²	530	755	975	1,200	1,420	1,735
Grab Elongation, %	ASTM D 4632	8,300 m ²	50	50	50	50	50	50
CBR Puncture Strength, N	ASTM D 6241	50,000 m ²	1,347	1,936	2,557	3,225	4,116	5,006
Trapezoidal Tear Strength, N	ASTM D 4533	8,300 m ²	220	310	395	467	555	689
Apparent Opening Size, Sieve No., mm	ASTM D 4751	50,000 m ²	0.212	0.212	0.180	0.150	0.150	0.150
Permittivity, sec ⁻¹	ASTM D 4491	50,000 m ²	1.80	1.50	1.30	1.00	0.80	0.60
Water Flow Rate, l/min/m ²	ASTM D 4491	50,000 m ²	5,495	4,480	3,865	3,050	2,440	1,830
UV Resistance (% retained after 500 hours)	ASTM D 4355	per formulation	70	70	70	70	70	70
TYPICAL ROLL DIMENSIONS								
Roll Length ⁽²⁾ , m			91	91	91	91	91	91
Roll Width ⁽²⁾ , m			4.6	4.6	4.6	4.6	4.6	4.6
Roll Area, m ²			418	418	418	418	418	418

NOTES:

- ⁽¹⁾The property values listed are in weaker principal direction. All values listed are Minimum Average Roll Values except apparent opening size in mm and UV resistance. Apparent opening size (mm) is a Maximum Average Roll Value. UV is a typical value.
- ⁽²⁾Roll lengths and widths 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, call 800.435.2008 or contact your local sales office.

