



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

## GSE CE Nonwoven Needleponched Geotextile

GSE CE Geotextile is a staple fiber nonwoven needleponched geotextile developed and manufactured with the specific intent to meet AASHTO M288 requirements. This product is manufactured under a stringent quality management system which ensures that the product meets or exceeds the following specifications. The geotextile may also be produced with customized properties to meet the specific needs of customers and project requirements. GSE quality control laboratories are GAI LAP approved to provide the highest level of confidence in our quality control data.

### Product Specifications

TESTED PROPERTY	TEST METHOD	MINIMUM AVERAGE ROLL VALUE			
		CE3	CE4	CE6	CE8
Product Code		CE3	CE4	CE6	CE8
Grab Tensile Strength, lb (N)	ASTM D 4632	90 (400)	120 (534)	160 (712)	205 (912)
Grab Elongation, %	ASTM D 4632	≥ 50	≥ 50	≥50	≥50
Puncture Strength, lb (N)	ASTM D 4833	55 (245)	65 (289)	90 (400)	120 (534)
Mullen Burst Strength, psi (kPa)	ASTM D 3786	175 (1,207)	230 (1,586)	280 (1,931)	350 (2,413)
Trapezoidal Tear, lb (N)	ASTM D 4533	40 (180)	50 (222)	65 (289)	85 (378)
UV Resistance (% retained after 500 hours)	ASTM D 4355	70	70	70	70
Apparent Opening Size, Sieve No. (mm)	ASTM D 4751	70 (0.212)	70 (0.212)	70 (0.212)	80 (0.180)
Permittivity, sec <sup>-1</sup>	ASTM D 4491	2.0	2.0	1.5	1.3
Flow rate, gal/min/ft <sup>2</sup>	ASTM D 4491	150.0	140.0	110.0	95.0
AASHTO M288 Class		<3	3	2	1
TYPICAL ROLL DIMENSIONS					
Width x Length <sup>(1)</sup>		CE3	CE4	CE6	CE8
		(15' x 360') 600 sy CE3N*	(15' x 360') 600 sy CE4N*	(15' x 300') 500 sy CE6N*	(15' x 300') 500 sy CE8N*
		(12.5' x 360') 500 sy	(12.5' x 360') 500 sy	(12.5' x 360') 500 sy	(12.5' x 360') 500 sy

#### NOTES:

- All values are minimum average roll values except apparent opening size in mm which is a maximum average roll value.
- All values in weaker principal direction.
- <sup>(1)</sup>Roll lengths and widths have a tolerance of plus or minus 1%.
- \*N denotes Narrow.