

GSE CE Nonwoven Needle-punched Geotextiles

GSE CE Geotextiles are a family of staple fiber nonwoven needle-punched geotextiles developed and manufactured with the specific intent to meet AASHTO M288 requirements. The geotextiles are manufactured using an advanced manufacturing and quality system to produce the most uniform and consistent nonwoven needle-punched 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 and for various applications.



AT THE CORE:

Civil nonwoven geotextiles are used in the transportation industry for construction of roadways.

Product Specifications

| Tested Property ⁽²⁾ | Test Method | Minimum Average Roll Value ⁽¹⁾ | | | |
|---|-------------|---|---|---|---|
| | | CE3 | CE4 | CE6 | CE8 |
| Grab Tensile Strength, lb | ASTM D 4632 | 90 | 120 | 160 | 205 |
| Grab Elongation, % | ASTM D 4632 | 50 | 50 | 50 | 50 |
| CBR Puncture, lb | ASTM D 6241 | 260 | 310 | 410 | 535 |
| Trapezoidal Tear, lb | ASTM D 4533 | 40 | 50 | 65 | 85 |
| 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 ⁻¹ | ASTM D 4491 | 2.0 | 1.7 | 1.5 | 1.3 |
| Flow rate, gal/min/ft ² | ASTM D 4491 | 150.0 | 140.0 | 110.0 | 95.0 |
| AASHTO M288 Class | | <3 | 3 | 2 | 1 |
| TYPICAL ROLL DIMENSIONS | | | | | |
| Roll Width x Length ⁽³⁾ | | CE3 (15' x 360') 600 sy | CE4 (15' x 360') 600 sy | CE6 (15' x 300') 500 sy | CE8 (15' x 300') 500 sy |
| | | CE3N ⁽⁴⁾ (12.5' x 360') 500 sy | CE4N ⁽⁴⁾ (12.5' x 360') 500 sy | CE6N ⁽⁴⁾ (12.5' x 360') 500 sy | CE8N ⁽⁴⁾ (12.5' x 360') 500 sy |

NOTES:

- ⁽¹⁾All values are minimum average roll values except apparent opening size in mm which is a maximum average roll value.
- ⁽²⁾All values in weaker principal direction.
- ⁽³⁾Roll lengths and widths have a tolerance of ±1%.
- ⁽⁴⁾N denotes Narrow.

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.