GSE CoalDrain 7.6 mm Geocomposite (Double-Sided)

METRIC

GSE CoalDrain geocomposite consists of a 7.6 mm thick GSE HyperNet geonet heat-laminated with a non-woven geotextile on the bottom side and an innovative composite fabric on the top side. The top geotextile serves as filter against fine materials like coal ash and FGD gypsum while the core serves the drainage function. The innovative geocomposite has been tested extensively in the laboratory and the field and has been proven to meet the performance requirements of an effective filter against coal combustion residuals.



AT THE CORE:

A high flow geocomposite that effectively filters coal combustion residuals.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value(1)
Geocomposite			
Transmissivity ⁽²⁾ , m²/sec	ASTM D 4716	1/50,000 m ²	9 X 10 ⁻⁴
Ply Adhesion, g/cm	ASTM D 7005	1/4,600 m ²	89
Geonet Core ^(1,3) – GSE HyperNet 7.6			
Geonet Core Thickness, mm	ASTM D 5199	1/4,600 m ²	7.6
Density, g/cm³	ASTM D 1505	1/4,600 m ²	0.94
Tensile Strength (MD), N/mm	ASTM D 7179	1/4,600 m ²	13.3
Carbon Black Content, %	ASTM D 4218	1/4,600 m ²	2.0
Compressive Strength kPa	ASTM D 6364	1/50,000 m ²	1200
Top Composite Geotextile ^(1,3)			
Structure	Hybrid monolithic woven-nonwoven needlepunched		
Mass per Unit Area, g/m²	ASTM D 5261	1/8365 m²	480
Grab Tensile Strength, N	ASTM D 4632	1/8365 m²	890
CBR Puncture Strength, N	ASTM D 6241	1/8365 m²	3,447
Trapezoidal Tear Strength, N	ASTM D 4533	1/8365 m²	378
AOS, US Sieve (mm)	ASTM D 4751	1/50,000 m ²	170 (0.09)
Permittivity, (sec ⁻¹)	ASTM D 4491	1/50,000 m ²	0.3
Water Flow Rate, Ipm/m²	ASTM D 4491	1/50,000 m ²	814
UV Resistance, % retained	ASTM D 4355	per formulation	70

[Product specifications continued on back]





AT THE CORE:

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Product Specifications [continued]

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Tested Property	Test Method	Frequency	Minimum Average Roll Value(1)
Bottom Geotextile			
Mass per Unit Area, g/m²	ASTM D 5261	1/8,300 m ²	200
Grab Tensile Strength, N	ASTM D 4632	1/8,300 m ²	710
Grab Elongation	ASTM D 4632	1/8,300 m ²	50%
CBR Puncture Strength, N	ASTM D 6241	1/50,000 m ²	1,936
Trapezoidal Tear Strength, N	ASTM D 4533	1/8,300 m ²	290
AOS, US Sieve (mm)	ASTM D 4751	1/50,000 m ²	70 (0.212)
Permittivity, (sec ⁻¹)	ASTM D 4491	1/50,000 m ²	1.5
Water Flow Rate, lpm/m²	ASTM D 4491	1/50,000 m ²	4,480
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70
	TYPICAL R	OLL DIMENSIONS(4)	
Roll Width, m			4.57
Roll Length, m			39.62
Roll Area, m²			181

NOTES

- "All geotextile 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.
- ⁽²⁾Gradient of 0.1, normal load of 480 kPa water at 20°C between steel plates for 15 minutes. Contact GSE for performance transmissivity value for use in design.
- $\ensuremath{^{\circ}}$ $^{\text{(3)}}\text{Component}$ properties prior to lamination.
- $^{(4)}$ Roll widths and lengths have a tolerance of $\pm 1\%$.
- $\bullet \ ^{(5)} Filter\ compatibility\ with\ a\ minimum\ of\ three\ types\ of\ CCP\ materials\ (fly\ ash,\ stabilized\ FGD,\ and\ FGD\ gypsum)\ under\ simulated\ field\ conditions.$

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.