FUNCTION

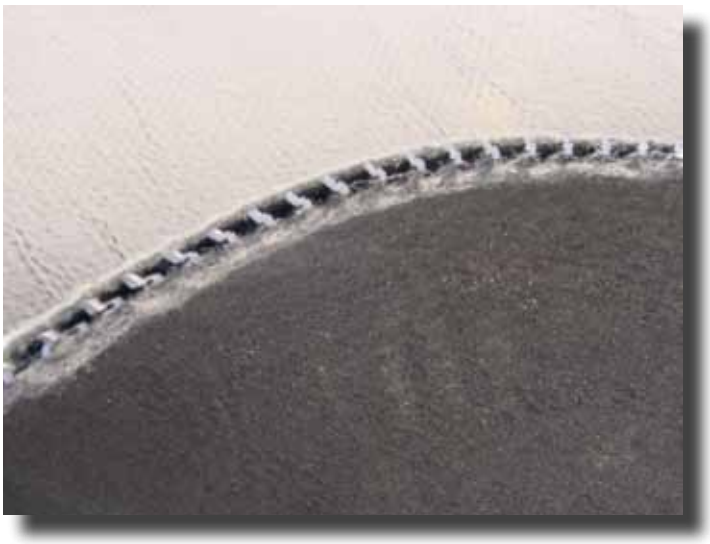
TEXDRAIN drainage geocomposites consist of a polyethylene geonet core with nonwoven geotextiles bonded to one or both sides. They serve as a cost-effective substitute for granular soils in various drainage and gas venting applications. The biplanar geonet core provides a high flow capacity and is also available in different thicknesses to meet a wide range of performance requirements. The nonwoven geotextiles serve as a separation layer between the geonet and adjacent soils, preventing soil intrusion and clogging of the geonet core. In addition, nonwoven geotextiles provide good interface shear strength with adjacent geomembranes and soil.

APPLICATIONS

In landfill cover systems TEXDRAIN geocomposites are used to drain surface water away from the barrier layer decreasing percolation of water into the waste. TEXDRAIN geocomposites may also be used as a gas venting layer below the barrier layer to prevent the build-up of gases generated by degrading waste or underlying soils.

In landfill bottom liner systems TEXDRAIN geocomposites are used above the primary liner for leachate drainage and as a leak detection layer between the primary and secondary liners.

Similarly, in liquid impoundments TEXDRAIN may be used underneath the primary liner as the leak detection layer.



FEATURES AND BENEFITS

- Cost-effective substitute for thick layers of coarse-grained soil in drainage applications, providing savings on materials, transportation, installation and airspace.
- Preserves aggregate resources for structural applications where alternative materials can't be used.
- Three functions in one unit: filtration, drainage and protection.
- Rapid installation in comparison to conventional soil drainage layers.
- Wide range of product combinations allows performance driven product selection at an economical price.
- Chemically resistant polyethylene geonet and polypropylene geotextile construction provides long life in harsh environments.
- Exhibits good interface shear strength with adjacent geomembranes and soil, allowing a high factor of safety against sliding.

PRODUCTS

PRODUCT SELECTIONS

TEXDRAIN Geonets can be combined with a broad range of nonwoven geotextiles, thermally bonded to either one or two sides to achieve a wide range of product performance. The charts below illustrate typical transmissivity data for several common products. For more complete data, refer to the TEXDRAIN Certified Properties Sheets.

TEXDRAIN 200 GEONET

PROPERTY	TEST	UNITS	TYPICAL VALUE
Thickness	ASTM D 5199	Mil	200
Density, min.	ASTM D 1505	g/cc	0.94
Carbon Black Content, min.	ASTM D 1603	%	2-3
Tensile Strength	ASTM D 5035 MOD	lbs/inch	45
Transmissivity* (MD)	ASTM D 4716	m^2/sec	2×10^{-3}

* Tested between two metal plates at 10,000 lb/ft^2 with a hydraulic gradient of 0.1 for 15 minutes.

TEXDRAIN 250 GEONET

PROPERTY	TEST	UNITS	TYPICAL VALUE
Thickness	ASTM D 5199	Mil	250
Density, min.	ASTM D 1505	g/cc	0.94
Carbon Black Content, min.	ASTM D 1603	%	2-3
Tensile Strength	ASTM D 5035 MOD	lbs/inch	55
Transmissivity* (MD)	ASTM D 4716	m^2/sec	3×10^{-3}

* Tested between two metal plates at 10,000 lb/ft^2 with a hydraulic gradient of 0.1 for 15 minutes.

TEXDRAIN DRAINAGE GEOCOMPOSITE Typical Transmissivity

PRODUCT	TRANSMISSIVITY (gal/min. ft)	TRANSMISSIVITY (m^2/sec)
TEXDRAIN 200 DS 6	0.48	1×10^{-4}
TEXDRAIN 200 DS 8	0.48	1×10^{-4}
TEXDRAIN 250 DS 6	1.69	3.5×10^{-4}
TEXDRAIN 250 DS 8	1.69	3.5×10^{-4}

The above values, unless otherwise specified, are the minimum acceptable average test results for any roll based on the specified test methods and do not refer to an individual test specimen. The data provided is for informational purposes only and is not intended as a warranty or guarantee. Values are subject to change without notice.

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