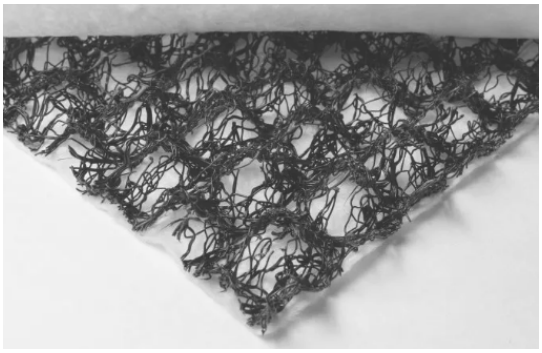
TME Grup Makina İnşaat San. Tic. Ltd. Şti.

9001:2015 14001:2015

CONFORMITY OF PRODUCT

TME GeoTech Geonet Composite



Purpose of Usage

TME GeoTech Drainage Geocomposite is designed for efficient water and gas drainage in civil, geotechnical, and environmental engineering projects. It is widely used in landfill drainage and leachate collection systems, retaining walls, tunnel linings, road and railway sub-drainage, foundation drainage, and green roof systems. The product is ideal for relieving hydrostatic pressure and ensuring long-term structural stability.

Application Locations

TME GeoTech Drainage Geocomposite consists of a high-performance drainage core, such as a geonet or structured drainage layer, combined with one or two layers of nonwoven geotextile. The core provides excellent in-plane flow capacity, while the geotextile layers act as filtration barriers to prevent soil intrusion and clogging. It offers high compressive strength, maintaining drainage performance even under significant loads. The material is resistant to chemicals, biological degradation, and environmental stresses, ensuring durability and long service life.

Property	Unit	Typical Value
Core Material	—	HDPE / High-Density Polyethylene
Geotextile Type	—	Nonwoven Needle-Punched
Geotextile Weight	g/m²	150 – 300
Core Thickness	mm	5 – 10
Compressive Strength	kPa	200 – 400
In-Plane Flow Capacity	l/m/s	0.5 – 1.5
Water Permeability of Geotextile	l/m²/s	100 – 200
Elongation at Break / Kopmada Uzama	%	50 – 80
Chemical Resistance	—	Resistant to acids, alkalis, and salts
UV Resistance	—	Up to 6 months exposure
Temperature Range	°C	-40 to +80

Product Features

TME GeoTech Drainage Geocomposite combines drainage and filtration in a single integrated system, reducing the need for traditional granular drainage layers. This leads to lower construction costs, faster installation, and reduced labor requirements. Its lightweight and flexible structure allows easy handling on-site, while its high flow capacity ensures reliable performance. Additionally, it enhances system efficiency, protects surrounding structures, and extends the overall lifespan of engineering applications.

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