



Company Profile

GEOTEXTILES AND GEOCOMPOSITES



Manufactured and supplied by:

BEST INDUSTRIES FZE



BEST INDUSTRIES FZE

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**Manufacturer and
Distributor of**

- Non-Woven Geotextile
- Drainage Geocomposite
- Non-Woven Geobags
- HDPE Flexible Conduits
- PP Geogrids
- HDPE Drainage Nets
- Fiberglass Geogrids
- Non-Woven Geotubes
- HDPE Geocells



BEST INDUSTRIES FZE



About Us

BEST Geosynthetics is a reliable and leading manufacturer and exporter of high quality geosynthetic, engineering products in the MENA region and all over the world.

Since 2010, BEST Geosynthetics has been serving both domestic and international markets. Over the years, BEST Geosynthetics has successfully completed prestigious projects for both government and private sectors.

Understanding the Market requirements and a thirst for local manufacturers for Geotextile in UAE We have expanded our range of manufacturing to High-speed non-woven Geotextile manufacturing plant in SAIF Zone, Sharjah, UAE

The company's goal is to go beyond client's expectations with products and supportive services to their civil engineering projects.

MISSION STATEMENT

To offer highly effective Geosynthetic Products for sustainable engineering solutions to the World, Save the Environment, and save the Planet.

VISION STATEMENT

Inspiring the civil engineering community and becoming one of the World's leading Geosynthetics Materials manufacturer.

CORE VALUES

- **Making things happen** one step at a time.
- Providing Excellent **Customer Service**
- Building **Personal Development**
- Promoting **Environmental Sustainability**
- Creating the **Future**

1. Geotextiles

Product Overview

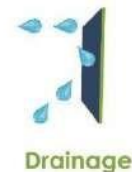
Geotextiles are permeable fabrics used in variable functions. Such as separation, filtration, reinforcement, protection, and drainage. Geotextiles as a permeable textile is used in contact with soil, rock, earth or any other geotechnical related material as an integral part of civil engineering solution, structure, or system.



Based on their structure and the manufacturing technique,

geotextiles may be broadly classified into woven and nonwoven. Woven geotextiles are manufactured by the interlacement of warp and weft yarns, which may be of multifilament, fibrillated or of slit film. Our Nonwoven geotextile is manufactured through a process of Needle-Punching, and mechanical and / or thermal bonding of fibers/filaments. Geotextile is often used in conjunction with other geosynthetics such as Geomembrane, Geogrid, Geonets and Geocomposites. Geotextile is widely used in Major infra-structure construction water and wastewater management projects.

Best Geotextiles are available in wide range of PP (polypropylene) Non-Woven, Needle-punched, Geotextile as well as the PET (Polyester) Non-woven Needle-Punched, Geotextile. The primary function of Geotextiles is to separate the subbase from the subgrade thereby performing as a separator at the interface of the two layers. In addition to separation the other common function of Geotextiles is filtration, drainage, and protection. Soil's characteristics improvement is the main objective to apply the Geotextile for roads' construction, embankments, pipelines networks, and earth retaining structures are built.



BEST INDUSTRIES FZE

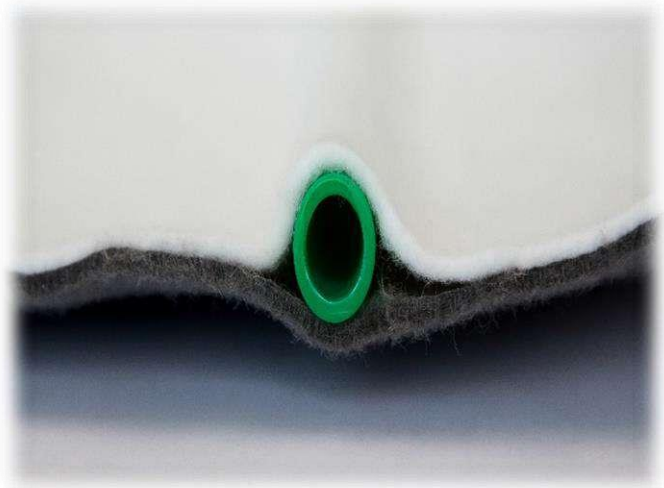
Best Industries FZE having over a decade experience in manufacturing of geosynthetics, our leading-edge technology in Needle Punch Non-Woven Geotextile manufacturing plant- with a production capacity of 7,000 Metric Tonnes per annum, enables us to serve all kind of geotextile to any volume of projects' requirements across the world. Our PP & PET Non-woven Geotextiles can be manufactured to a wide range of products ranging from 100gsm – 1200gsm. The inhouse laboratory for testing geotextiles on various industry parameters such as Textile mass per unit area test, thickness tests, permeability & tensile strength test, porosity, and puncture resistance test etc. to the best practices and ISO 9001-2015 Quality Management system ensures our range of products best in class.

2. Geocomposites

Product Overview

Geocomposites are typically combinations of a drainage material with a geotextile filter to prevent soil migration into the drainage system.

Geocomposites are made by combining different geosynthetics materials to address specific applications in the field in an optimal manner with minimum cost.



Geocomposites materials can be comprises of geotextile-geonets, geotextile-geogrids, geotextile-geomembranes, etc

Geocomposites are used for basic functions of roadways such as separation, drainage, filtration, and reinforcement. Geocomposites can be used to increase the strength and stability of underlying soil in a roadway. Geocomposites are used under the railway tracks to provide stabilization and reinforcement.

BEST INDUSTRIES FZE



Best Industries FZE

P.O. Box: 120734 I3-011

Sharjah Airport International Free Zone, Sharjah,
United Arab Emirates

Tel. No.: +971 6 741 6121 Fax No.: +971 6 552 8623

Email: info@bestindustries.ae Website: www.bestindustries.ae



BEST INDUSTRIES FZE

2. APPROVALS

Supplier Details Report



Company ID :	29853	Company Name :	BEST INDUSTRIES FZE
Company Address		Company Name in Arabic : <small>بست انديستريز</small>	
Street	: Sharjah Airport Free Zone	Telephone	: 00971 6 5528622
P.O Box	: 120734	Fax	: 00971 6 5528623
City	: SHARJAH	E-mail	: best@bestindustries.ae
Emirate	: SHARJAH	Company Website	: www.bestindustries.ae
Country	: AE	Contact Name	: Mr. Tushar Arur
Establishment Date	: 07-Dec-2010	Mobile No.	: 00971 50 1800159
		Vendor	:N
		Contractor	:N
		Manufacturer	:Y
		Principal	:N
		Associate	:N

VAT Registration Status	Tax Registration No. (TRN)	TRN Issue Date	Comments
REGISTERED	100277269500003	01-Jan-2018	

License/ Certificate No.	License Type.	License Description	License Expiry Date
11557	SAIF	Sharjah Airport Freezone	06-Dec-2022

Owner No	Owner Name	% Ownership	Phone No	Fax No	Owner Address
12475	Abdelbaki Taleb	100	0097165528622		

Product No	Product Name	Principal	Principal Name	AgencyLink	Certificate No	Certif.ExpiryDate
10150100	Geotextiles Fabric					
50111160	GEOTEXTILES AND OTHER GEOTECHNICAL MATERIALS					

MATERIAL APPROVAL REQUEST

Project No: R1601 MAR No.: 02C
 Project Name: AI-HEFAIYA LAKE KALBA CITY
 Employer / Client: SRTA
 Engineer: JACOBS
 Contractor: GMC

PRODUCT DATA

Material Description: Geocomposit Layer
 Name of the Product: Geocomposit Talldrain FD 500 P1 (Geotextile 500gsm+300gsm)
 Location / area of use / Discipline: Lagoon
 Material Trade Name: Composite
 Manufacturer's Name: Best industries (FZE)
 Manufacturing Location/ Country: United Arab Emirates
 Local agent / Supplier's Name: Best Industries (FZE)
 Client's Approved Vendor?
 Specification reference:
 Is this an alternative product? Original MAR No.:
 Reason for alternative product:

Cost Impact: Yes No Time Impact: Yes No

Technical details/ Attachments: hard copy

BOQ Reference	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Drawing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Specification compliance statement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Specification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Catalogue/Pre-Qualification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Previous Approval	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Trade License	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Submitted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Test Reports	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Supporting Documents submitted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks : Revised based on Engineer's comments on MAR No. 02B. Sample is attached

ORIGINATOR: Homayoun Amiri [Signature] 25 March 2023
 <Type Designation here> Name Signature Date
 SUBMITTED BY: Mohammed Kamel [Signature] 25 March 2023
 (CONTRACTOR) Name Signature Date

ACKNOWLEDGEMENT OF SAMPLE RECEIPT

RECEIVED BY
 (CONTRACTOR) Name Signature Date

FOR ENGINEER'S USE

Status APPROVED APPROVED AS NOTED
 REVISE AND RESUBMIT REJECTED

- Approved based on attached sample
 - Final approval subject to SRTA approval-

Review and approval is only for general conformance with the design concept of the project and general compliance with the information provided in the contract documents. Contractor, and his Subcontractor / Supplier, remains responsible for compliance with contract documents, confirmation and correlation of quantities and dimensions, selection of fabrication process and techniques, coordination of trades, and performance of this work in a safe and satisfactory manner.

RESPONSE PREPARED BY:
 MATERIALS ENGINEER [Signature] [Signature] 29-3-23
 Name Signature Date
 ISSUED BY: Mr. Robinson Henry [Signature] 29/03/23
 SENIOR RESIDENT ENGINEER Name Signature Date

MATERIAL APPROVAL REQUEST

Project No: R1601 MAR No.: 01C
 Project Name: AI-HEFAIYA LAKE KALBA CITY
 Employer / Client: SRTA
 Engineer: JACOBS
 Contractor: GMC

PRODUCT DATA

Material Description: Geotextile
 Name of the Product: Geotextile 1000 g/m2 (BNW.1000NP)
 Location / area of use / Discipline: Lagoon
 Material Trade Name: Geotextile 1000 g/m2 (BNW.1000NP)
 Manufacturer's Name: Best Industries (FZE)
 Manufacturing Location/ Country: United Arab Emirates
 Local agent / Supplier's Name: Best Industries (FZE)
 Client's Approved Vendor?
 Specification reference:
 Is this an alternative product? Original MAR No.:
 Reason for alternative product:

Cost Impact: Yes No Time Impact: Yes No

Technical details/ Attachments: hard copy

BOQ Reference	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Drawing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Specification compliance statement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Specification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Catalogue/Pre-Qualification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Previous Approval	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Trade License	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Submitted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Test Reports	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Supporting Documents submitted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks : Revised based on Engineer's comments on MAR No. 1A - sample attached

ORIGINATOR: Bilal Ahamad [Signature] 25 March 2023
 <Type Designation here> Name Signature Date
 SUBMITTED BY: Mohammed Kamel [Signature] 25 March 2023
 (CONTRACTOR) Name Signature Date

ACKNOWLEDGEMENT OF SAMPLE RECEIPT

RECEIVED BY
 (CONTRACTOR) Name Signature Date

FOR ENGINEER'S USE

Status APPROVED APPROVED AS NOTED
 REVISE AND RESUBMIT REJECTED

- Approved based attached sample of Needle punched Geotextile
 - Pl. arrange factory visit.
 - Final approval subject to client's acceptance.

Review and approval is only for general conformance with the design concept of the project and general compliance with the information provided in the contract documents. Contractor, and his Subcontractor / Supplier, remains responsible for compliance with contract documents, confirmation and correlation of quantities and dimensions, selection of fabrication process and techniques, coordination of trades, and performance of this work in a safe and satisfactory manner.

RESPONSE PREPARED BY: [Signature] [Signature] 29-3-23
 MATERIALS ENGINEER Name Signature Date

ISSUED BY: Mr. Robinson Henry [Signature] 29/03/23
 SENIOR RESIDENT ENGINEER Name Signature Date

Date : June 21, 2023
Ref. : PSE20231011/AAR/L0317/23

M/s. Best Industries FZE
P.O. Box: 120734
Sharjah, U.A.E.
Phone : 06 5528622



PROSCAPE

Attn. : Mr. Mohammed Abdeltawab

Dear Sir,

Project: PSE20231011 Lamer South Package
Sub: Supply of non-woven Geotextile for planting areas
Ref: Letter of Intent

With reference to the subject and your Email dated: 31.05.2023. we are pleased to confirm our intention to award you the job for a total value of **AED 65,656.40 (AED. Sixty-Five Thousand Six Hundred Fifty- Six Fils Forty Only)** Excluding VAT as per attached Annexure.

The Terms & conditions are as follows:

Scope of Work : Supply of non-woven Geotextile for planting areas
Delivery : As per site schedule
Payment Terms : 100% Advance Payment
Warranty : As per project specification

Final confirmation of order from M/S. Proscape LLC will be subject to consultant's approval on the materials, shop drawings, technical submittals, sample and mockup.

Please acknowledge the receipt of this LOI and coordinate with our Project Manager Mr. Mustafa Saifee - 052 6013252 for approval process.

Thanking you,

Regards,

Ahmad A R Anoochi

Chairman

Cc: GCEO/ DR / GCFO / AT / MS / MA

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Proscape LLC, P O BOX: 3151, DUBAI, UAE, TEL: +971 4 2770244, Fax: +971 4 2770424

E-mail: info@proscapeuae.com, www.proscapeuae.com
DUBAI - ABU DHABI - SHARJAH - MUSCAT - RIYAD

A member of Tanseeq Investment Group



	Reference No / رقم المرجع SCS Z 0015	UAE ARMED FORCES COMMAND OF MILITARY WORKS		القوات المسلحة لدولة الامارات العربية المتحدة قيادة الأشغال العسكرية		
	الطبعة / Rev 01	Date / التاريخ 2023-08-16	طلب اعتماد مصادر خارجية OUTSOURCING PROPOSAL			
CMW-22049-8001-SCS-Z-0015		Full / مرجع الوثيقة الكامل Document Reference	B001	22049	رقم العقد / Contract No. 22049	
MARINE CONSTRUCTION FOR AL-RAMS PORT / PHASE 1						
Command of Military Works		To	إلى CHINA HARBOUR ENGINEERING CO		From / من	
SUBMITTAL TITLE / عنوان الترخيص						
Al Rams - Ras Al Khaimah		منطقة / Zone	ALL	مستوى التابق / F. Level	0	
8	بوابة / Gateway	01 50 00	CSI ID / CMW.1.22049.6.05	WBS ID / MARINE WORKS	المنشأة / Facility التخصص / Discipline	
Sub Consultant / استشاري باطن		Vendor / مورد		Subcontractor / مقاول باطن		Type / النوع
وصف الأعمال / Works Description		The Pre-Qualification for Geo-Textile		شركة العمل مع الأعمال / CMW Previous Experience (Y/N)	الشركات المقترحة (3 على الأقل) / Proposed Companies (at least 3)	
					Best Industries FZE	
					Emirates Specialites CO.L.L.C	
					Aiyaf Geo Composites	
		القيمة المقدرة بالأعمال المطلوبة (بالدرهم) / Estimated Value of Works Required (Dhs):				
The issuer certifies that all information issued under this Submittal have been verified and found to be in compliance with the Contract documents. To be filled by the FINAL Reviewer ONLY using the key Code below						
FOR THE ISSUER						
تاريخ / Date		16/8/2023		التوقيع / Signature		الإسم / Name
SUBMITTAL REVIEW & COMMENTS						
Site Engineer / Consultant Site Engineer				مهندس الموقع / مهندس الموقع الاستشاري		
تاريخ / Date		22/8/2023		التوقيع / Signature		الإسم / Name
Specialist Engineer / Specialist Committee		Best Industries FZE		المهندس المختص / اللجنة المختصة		
		لا مانع من اعتماد Best Industries FZE				
		بأطراف أعمال ترسيب Geo-Textile المواد والخضبات للامداد				
REJECTED / مرفوض		NO OBJECTION - AS NOTED / موافق مع الملاحظات		NO OBJECTION / موافق		Review Status (by Final Approver)
تاريخ / Date				التوقيع / Signature		الإسم / Name
FOR THE ISSUER						
تاريخ / Date		1/9/2023		التوقيع / Signature		الإسم / Name

3. ISO CERTIFICATES

Certificate of Registration

*This is to Certify that
Quality Management Systems of*

**BEST INDUSTRIES (FZE)
I3-011 SAIF ZONE SHARJAH**

has been assessed and found to conform to the requirements of

ISO 9001:2015

for the following scope:

**Aluminium, Steel & Stainless Products, Special Purposes
Fabrics & Fibers Manufacturing.**

Certificate No.	: 179AGB20001	
Initial Registration Date	: 17.10.2022	Issuance Date: 17.10.2022
Date of Expiry *	: 16.10.2025	
1st Surve. Due	: 16.10.2023	2nd Surve. Due: 16.10.2024



Director

Accurate Global Ltd.

Address- 27, Old Gloucester Street, London, WC1N3AX, United Kingdom

*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn).

Certificate Verification: Please Re-check the validity of certificate at www.accurateglobal.com as Active Clients. Certificate is the property of Accurate Global Ltd. London, UK and shall be returned immediately upon demand.



Certificate of Registration

*This is to Certify that
Environmental Management Systems of*

**BEST INDUSTRIES (FZE)
I3-011 SAIF ZONE SHARJAH**

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope:

**Aluminium, Steel & Stainless Products, Special Purposes
Fabrics & Fibers Manufacturing.**

Certificate No.	: 179AGB20001	
Initial Registration Date	: 17.10.2022	Issuance Date: 17.10.2022
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Certificate Verification: Please Re-check the validity of certificate at www.nccratise.com at Active Clients. Certificate is the property of Accurate Global Ltd. London, UK and shall be returned immediately when demanded.



Certificate of Registration

*This is to Certify that
Occupational Health & Safety Management Systems of*

BEST INDUSTRIES (FZE)

I3-011 SAIF ZONE SHARJAH

has been assessed and found to conform to the requirements of

ISO 45001:2018

for the following scope:

**Aluminium, Steel & Stainless Products, Special Purposes
Fabrics & Fibers Manufacturing.**

Certificate No. : 179AGB20001

Initial Registration Date : 17.10.2022

Date of Expiry * : 16.10.2025

1st Surve. Due : 16.10.2023

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Certificate Verification: Please Re-check the validity of certificate at www.accurateiso.com at Active Clients. Certificate is the property of Accurate Global Ltd. London, UK and shall be returned immediately when demanded.



4. QUALITY POLICY

BEST INDUSTRIES FZE

BEST INDUSTRIES FZE QUALITY MANUAL

STRATEGIC DIRECTION

TO INCREASE OF PRODUCTION TO 150 MT / MONTH THROUGH PURCHASE OF NEW PLANTS & M/CS, & MOVE TO MORE SPACIOUS LOCATION.

TO ENTER THE PETROLIUM MARKET BY DEVELOPING SUITABLE PRODUCTS & GETTING API Q1 CERTIFICATION

QUALITY POLICY

AS A QUALITY CONCIOUS ORGANIZATION, **BEST Industries FZE** OPERATES TOACHIEVE MAXIMUM CUSTOMER SATISFACTION AND QUALITY PRODUCTS.

THESE WILL BE ACHIEVED BY:

- COMPLYING TO THE HIGHEST INTERNATIONAL STANDARDS & CODES
- OPTIMISING RESOURCE MOBILIZATION BY REDUCING WASTAGE
- ENSURING COST-EFFECTIVE MANUFACTURING AND DELIVERING IT RIGHTTHE FIRST TIME

WE SHALL MEET OUR AIMS BY IMPLEMENTING ISO9001:2015

- UNDERSTANDING ASPIRATIONS OF OUR CUSTOMERS
- INSTILLING TEAM SPIRIT TO MEET THE REQUIREMENT
- MONITORING AND MEASURING OUR ACTIVITIES
- CONTINUALLY IMPROVING OUR PROCESSES AND PRODUCTION
- PERCOLATING QUALITY CONSIIOUSNESS TO THE BOTTOM OF PYRAMID

BY IMPLEMENTING ABOVE POLICIES, WE ENDORSE OUR COMMITMENT TO CARRY OUT OURBUSINESS IN THE MOST PROFESSIONAL MANNER.

WE WILL ABIDE WITH ALL APPLICABLE LEGAL OBLIGATIONS.

5. LIST OF THE PROJECTS



LIST OF PROJECTS

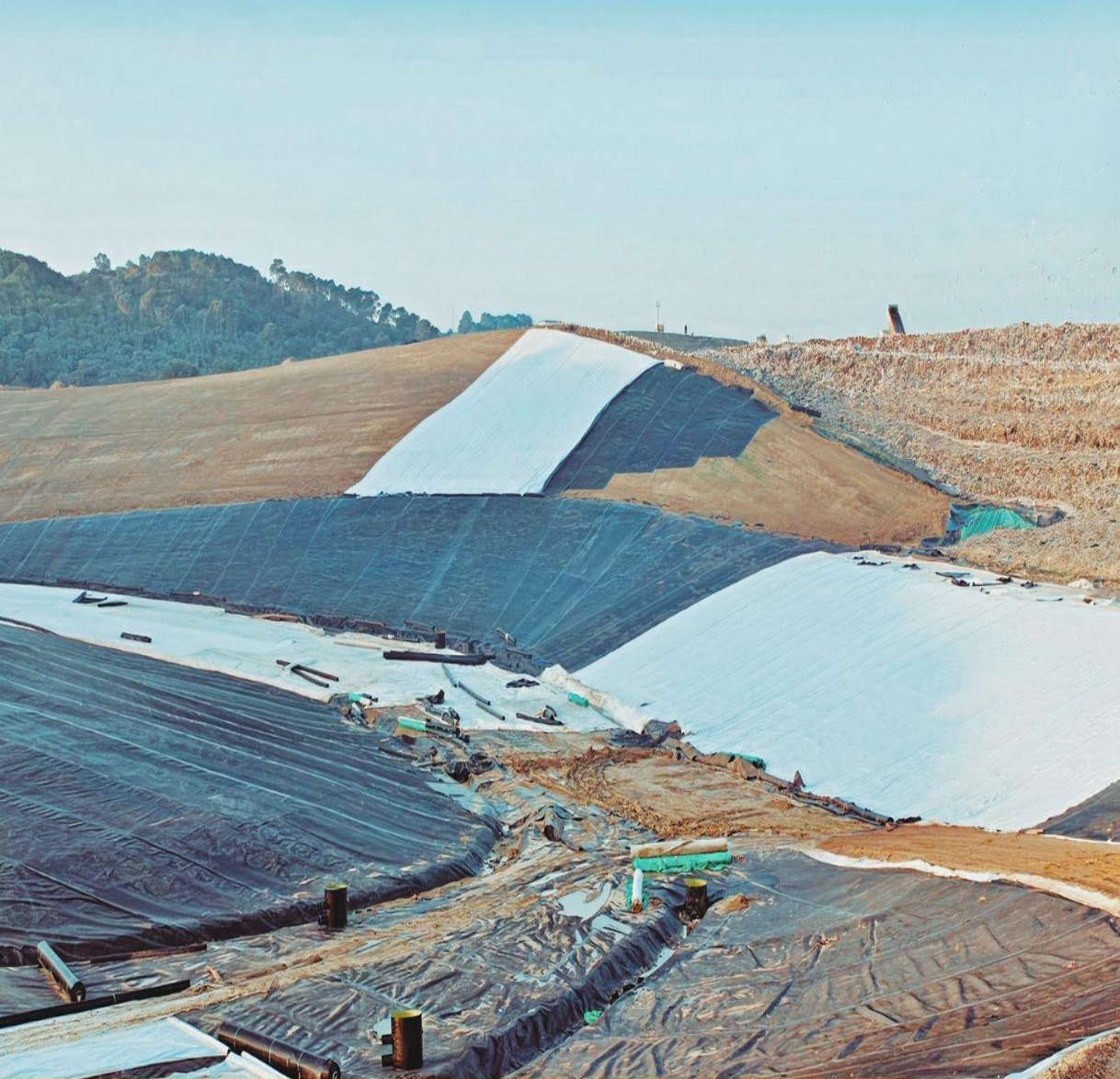
Sr. No.	PROJECT NAME	LOCATION	MATERIALS	CLIENT	CONTRACTOR	STATUS
1	updating data and carrying out depollution and rehabilitation work on the wild dump site of EL KERMA Wilaya of Oran	Algeria, North Africa	GoeTextiles, Geocomposite, Geocell	National Waste Agency	SARL ETHPE	COMPLETED
2	closure and rehabilitation works of the ZEF wild dump ZEF-SKIKDA	Algeria, North Africa	GoeTextiles, Geocomposite, Geocell	National Waste Agency	SARL ETHPE	COMPLETED
3	Execution works of the Hamici technical landfill center	Algeria, North Africa	GoeTextiles, Geocomposite, Geocell	National Waste Agency	SARL ETHPE	COMPLETED
4	updating data and carrying out depollution and rehabilitation work on the wild dump site of Draa Esemar Wilaya of Medea	Algeria, North Africa	GoeTextiles, Geocomposite, Geocell	National Waste Agency	SARL ETHPE	COMPLETED
5	realization of technical landfill center of Attatba. Client name : environment department wilaya of Tipasa	Algeria, North Africa	GoeTextiles, Geocomposite, Geocell	National Waste Agency	SARL ETHPE	COMPLETED
	Construction of Reed Bed Waste Water Treatment Plant	Fujairah, UAE	GoeTextiles, Geocomposite, Geocell		ETHPE CONTRACTING L.L.C	COMPLETED
6	AL HAMRA STP	RAS AL KHAIMAH, UAE	GoeTextiles, Geocomposite, Geocell		REED BED CONSTRUCTION	COMPLETED
7	Execution of Sewerage Collection System, Reed Bed Sewerage Treatment Plant in Al Haray phase I Sharjah, UAE	SHARJAH, UAE	GoeTextiles, Geocomposite, Geocell		REED BED CONSTRUCTION	COMPLETED
8	AL HARAY STP PH II	SHARJAH, UAE	GoeTextiles, Geocomposite, Geocell		ETHPE CONTRACTING L.L.C	COMPLETED
10	Rehabilitation of Waste Landfill,	Umm Al Quwain, UAE	GoeTextiles, Geocomposite, Geocell		ETHPE CONTRACTING L.L.C	COMPLETED
11	Rehabilitation of Waste Landfills- Alhail, Dhanda, Albidya, Alhallah, Fujairah, UAE	Fujairah, UAE	GoeTextiles, Geocomposite, Geocell		ETHPE CONTRACTING L.L.C	COMPLETED



BEST INDUSTRIES FZE

6. CATALOGUE





BEST INDUSTRIES FZE

www.bestindustries.ae

Modern
**Geosynthetic
Solutions**



Our Products

**“We provide
Modern
Geosynthetic
Solutions for Civil
Engineering
Applications”**

About Our Company

BEST Geosynthetics is a reliable and leading manufacturer and exporter of high-quality geosynthetic, engineering products in the MENA region to all over the world.

Since 2010, BEST Geosynthetics has been serving both domestic and international markets. Over the years, BEST Geosynthetics has successfully completed prestigious projects for both government and private sectors.

Understanding the Market requirements and thirst for local manufacturers for Geotextile in UAE We have expanded our range of manufacturing to a High-speed non-woven Geotextile manufacturing plant in SAIF Zone, Sharjah, UAE



**Modern
Geosynthetic
Solutions**

Company Statement

Inspiring the civil engineering community and becoming one of the World's leading Geosynthetics Materials manufacturer.



MISSION



To offer highly effective Geosynthetic Products for sustainable engineering solutions to the World, Save the Environment, and save the Planet.



VISION

Inspiring the civil engineering community and becoming one of the World's leading Geosynthetics Materials manufacturers.

1. Providing Excellent Customer Service
2. Promoting the Environmental Sustainability
3. Maintaining a long-term perspective in our decision-making and business strategies

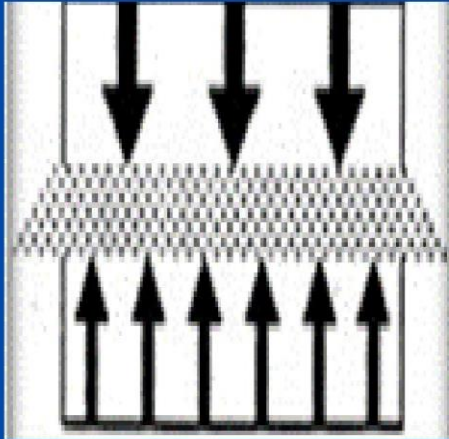
Geosynthetic Division-Functions

- Separation
- Filtration
- Drainage(Transmissivity)
- Reinforcement
- Protection
- Vapor/Moisture Barrier

BEST INDUSTRIES FZE

www.bestindustries.ae

Functions

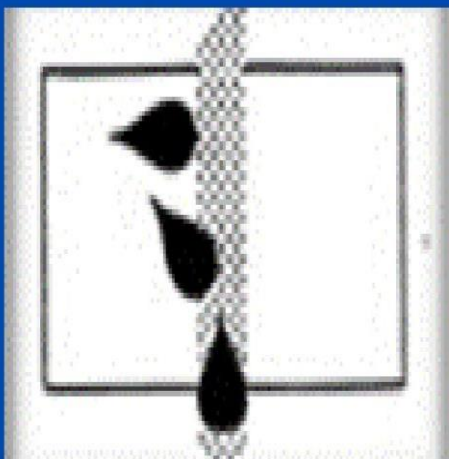
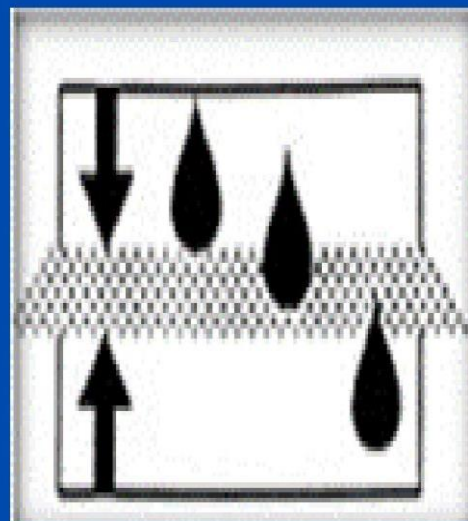


SEPARATION

By separating two dissimilar materials geotextiles (As a geosynthetic material) maintain the integrity and improve the functioning of each layer.

FILTRATION

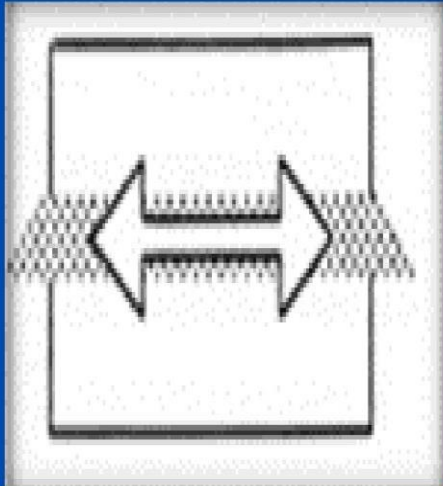
The function that enables the geosynthetic material to provide an unimpeded liquid flow while preventing most of the soil particles from migrating through the plane of the Geosynthetic material (The Geotextile and drainage Geocomposites are obvious examples)



DRAINAGE

It is the function of the Geosynthetic product(s) that provide the drainage of water or gasses along its planers, perforated conduits, constant drain paths.

Functions

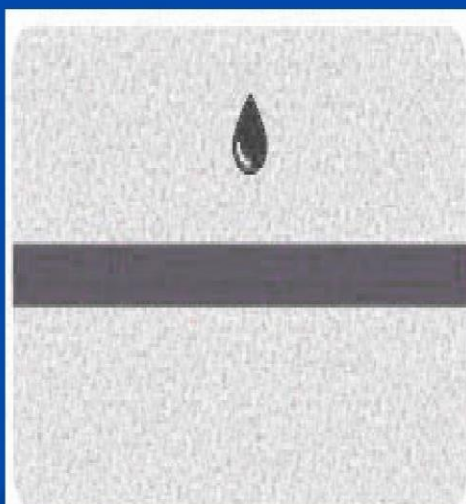
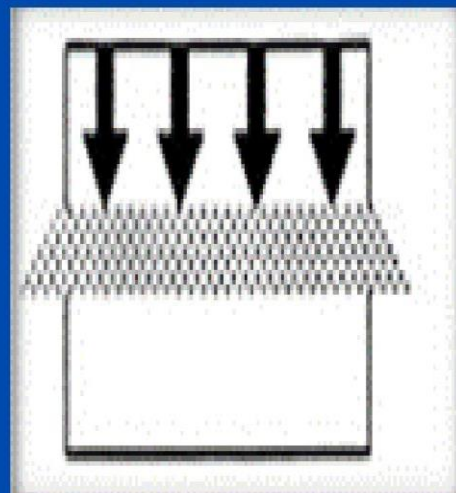


REINFORCEMENT

By distributing the axial loads to wider areas of the multi-layered soil grades using the interlocking system, the soil bearing capacity is increased by using Geotextile and/or Geogrids (As two geosynthetic materials) to extend the roads or embankments lifetime.

PROTECTION

This function is achieved by enhancing the puncture resistance property, Geosynthetic product (Geotextile i.e.) is capable to protect other Geosynthetic product (Geomembrane for example) during the application process or throughout its lifetime.



VAPOR/MOISTURE BARRIER

It is performed by seamless Geosynthetic products like (Geomembrane, GCL, PVC, EPDM, ..etc.) where they prevent vapor, water, and gases from crossing the barrier's planner to cause construction hazards on the structures.

Geosynthetic Products

- Geotextile
- Geocomposites
- Geobag and Geotube
- Geocell
- Geogrid
- GeoNet
- Geomembrane
- GeoClay Liner (GCL)



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Geotextile

Geotextile is a permeable fabric that is employed in civil engineering applications. It is a permeable material that is used for filters, separators, protectors, and drains.

Geotextile is produced by gluing and interlocking fibers with mechanical, chemical, thermal, solvent, or a combination of these methods.

Our geotextiles are designed to properly distribute loads, prevent damage, and provide soil stabilization, erosion control, and drainage solutions.

Geocomposites are multi-layered materials that blend several geosynthetic elements to provide improved performance and functionality. Our Geocomposites combine several geosynthetic components to deliver tailored solutions for project requirements.

Our Geocomposites are more effective in applications including landfill liners, drainage systems, and erosion control due to the integration of several geosynthetic components.

Geocomposites



Geobag and Geotube

A geobag, often called a geotextile bag or a geotube, is a sizable, tough fabric container used for sediment containment, coastal protection, and dewatering. High-strength geotextile materials that can endure the rigors of environmental exposure are often used to make Geobags. The extra water is allowed to drain through the fabric while they are filled with sludge, sediment, or other things. Land reclamation, riverbank protection, and beach erosion management are common uses for geo bags.

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Geocell

Geocells are three-dimensional honeycomb-like cellular. Our geocell is made of a material called high-density polyethylene (HDPE) or similar substances. These cells are connected. Then filled with things like soil or aggregate to make them strong and able to bear loads. Geocells are designed to protect slopes from erosion.

Geocell is a great choice for many applications because of its structural support, environmental sustainability, and affordability.

Geogrid is a geosynthetic material used to reinforce soils, retaining walls, sub-bases, and subsoils. High-strength, designed geogrids are utilized in civil engineering and construction projects for soil stabilization and reinforcement. Our geogrids provide affordable and long-lasting solutions for soil reinforcement and stability problems, whether they are utilized in road construction, railway embankments, or mining applications.

Geogrid



Geonet

A geonet is a type of material commonly used in engineering and environmental projects. It's like a mesh that has connected ribs or strands. Our Geonets are handy for improving soil drainage, filtration, controlling erosion, and reinforcing soil. They're often placed between layers of soil to create a pathway for water to flow through while preventing the soil particles from blocking the drainage system.

Geonets are essential for improving soil stabilization, drainage systems, and erosion management.

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Geomembrane

A geomembrane's primary role is that of a vapor or liquid barrier. For containment applications, geomembranes offer remarkable barrier qualities that ensure the safety of soil, groundwater, and the environment.

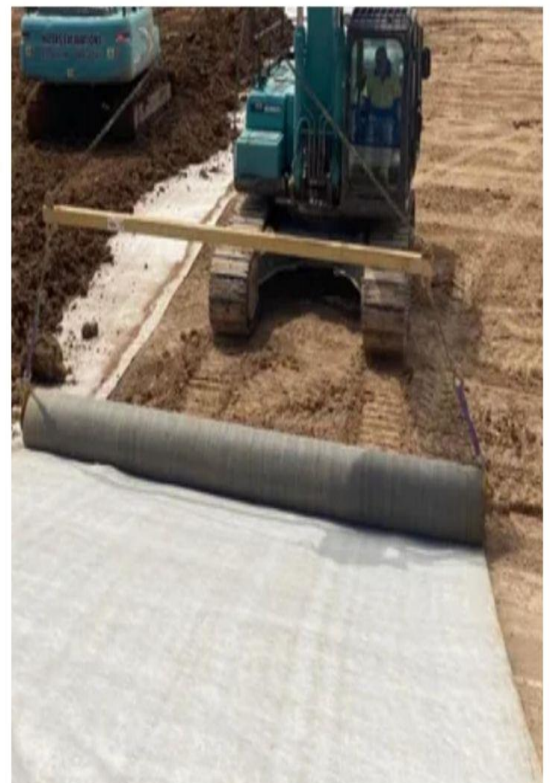
To guarantee dependability and longevity, our geomembranes are produced using premium materials and subjected to rigorous quality control procedures.

Our geomembranes offer exceptional strength and flexibility to survive harsh environmental conditions, whether they are used in landfill liners, ponds, canals, or mining applications

Also called Geosynthetic clay liners, it is used to be composed of an intermediate layer of bentonite or other very low-permeability material in between two layers of woven /non-woven geotextile mechanically held together by needling, stitching, or chemical adhesives.

By sandwiching a bentonite layer with certain qualities between two geotextiles (often using needle punching procedures), Geo-Clay-Liner barriers are composite materials created.

GeoClay Liner (GCL)



Geosynthetic Applications

- Marine Works Application
- Offshore Pipeline Protection
- Coastal Protection
- Erosion Control
- Drainage for structures
- Environment Dewatering and Landfills
- Mining Applications
- Pavements' Overlay
- Road Reinforcement
- Soil Stabilization and Pavements

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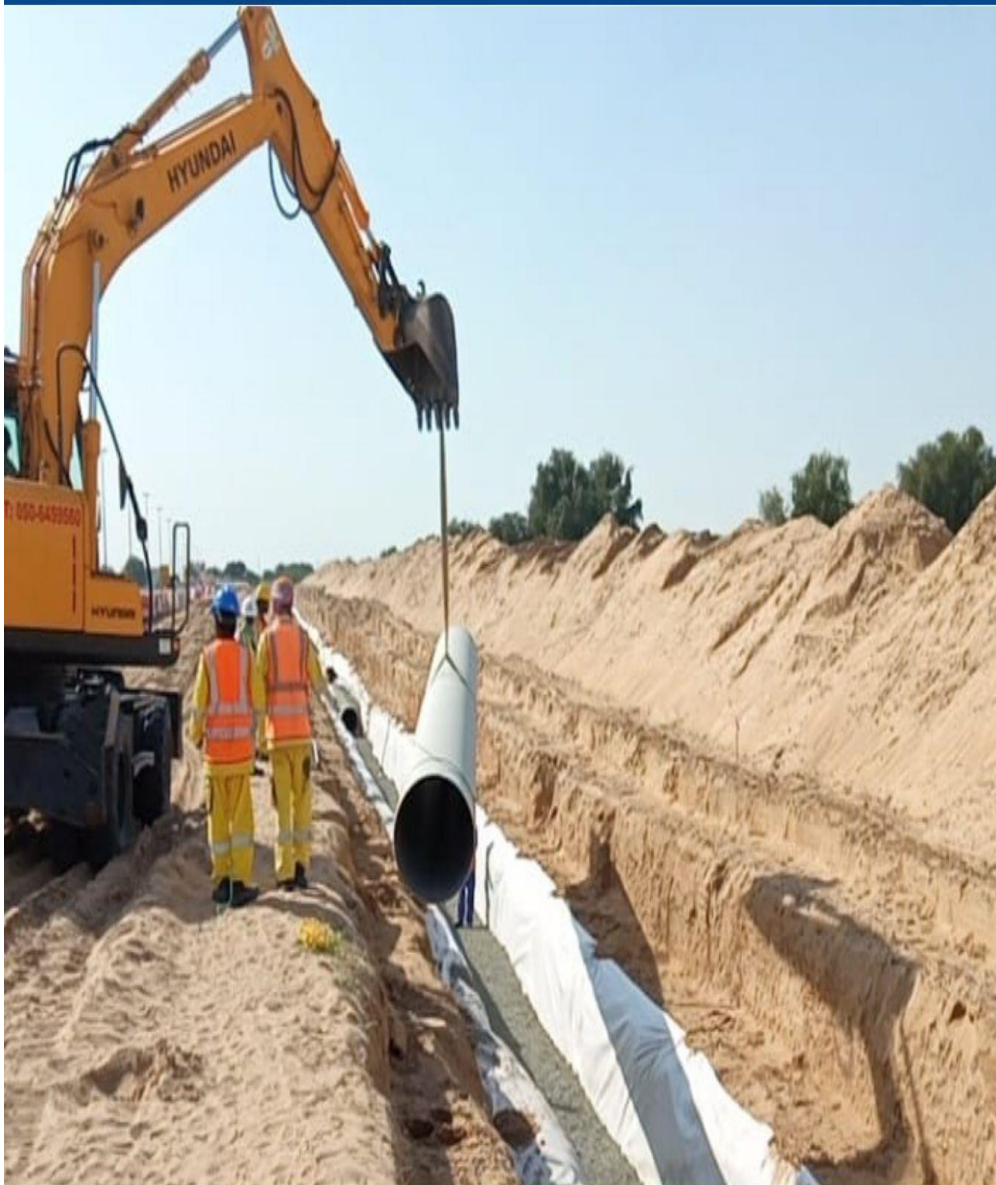
Marine Works Applications



Geosynthetic products like Geobag serve as essential barriers against soil erosion and wave forces in maritime work applications. They fortify coastlines by preventing sediment displacement, preserving natural habitats, and ensuring the stability of marine structures. Through their durable and permeable properties, geosynthetic products contribute significantly to the sustainability and longevity of marine construction projects.

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Offshore Pipeline Protection



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The Geosynthetic product like Geotextile is crucial for offshore pipe protection, protecting underwater pipelines from corrosive marine environments. Geotextile operates as a protective layer by absorbing blows and lessening the effects of current scouring. Geosynthetics protect the integrity and durability of offshore pipelines by offering stability and erosion resistance, which helps to promote dependable energy delivery and reduce environmental concerns.

Coastal Protection



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The Geosynthetic product like Geotextile are employed in coastal protection projects, such as revetments and seawalls, to provide erosion control and wave energy dissipation. It offers a combination of filtration, reinforcement, and drainage properties to stabilize coastal structures and prevent soil erosion. By preventing erosion, fostering stability, and economically maintaining the structural integrity of shorelines and coastal infrastructure, geotextile enhances coastal structures like groynes and revetments.

Erosion Control



When it comes to stabilizing slopes and avoiding soil displacement, geosynthetic products like Geocells excel in preventing erosion. Geocomposite erosion control blankets and mats are used to prevent soil erosion and promote vegetation growth in areas prone to erosion. They provide immediate protection and support for soil, preventing surface erosion caused by rainfall, runoff, and wind. Geocells with biodegradable components can offer temporary erosion control while vegetation is established.

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Drainage for Structures



Geocomposite drainage systems are utilized in various applications, including highways, sports fields, golf courses, retaining structures, and agricultural areas. They provide effective subsurface drainage by collecting and channeling water away from the surface, preventing waterlogging and enhancing soil stability. Drainage

Geocomposite is often preferred due to its high-flow capacity, durability, and resistance to clogging. In order to prevent waterlogging, preserve load-bearing capacity, and extend structural life, Geocomposites with drainage perforated pipes effectively manage water beneath structures including roadways and foundations.

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Environment Dewatering and Landfills



A Geocomposite products like Geosynthetic clay liners (GCL) are used as part of landfill containment systems to provide an impermeable barrier for waste containment. GCL with geotextiles and geomembranes enhances the performance of landfill liners by providing protection, liquid barrier, filtration, drainage, and reinforcement functions. Geotextile filters can be used in leachate collection systems to efficiently collect and drain leachate from landfills, preventing its accumulation. Geotextiles facilitate dewatering in environmental projects, separating liquids from solids, while other geosynthetics like geomembranes in landfills thwart contaminant leakage, preserving soil and groundwater quality.

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Mining Applications



Geosynthetic products like Geotextile and Geogrid in the application of mining operations, such as heap leach pads and tailings ponds, provide containment, drainage, and filtration functions. They are used in geotechnical projects for slope stabilization, retaining wall construction, and soil reinforcement, enhancing overall stability and safety. These are just a few examples of the diverse range of applications where Geosynthetics play a crucial role in providing effective and sustainable solutions. The versatility and customizable nature of Geosynthetics make them valuable in a wide array of civil engineering, construction, and environmental projects.

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Pavements' Overlay



Geosynthetics are essential in overlay pavement applications because they reduce reflective cracking and increase longevity. Between the old and new asphalt layers, geotextile or glass fiber Geogrid as paving fabrics are positioned carefully to stop fractures from rising. With this creative application of geosynthetics, the lifespan of the pavement is increased, less maintenance is required, and the road surface is smoother and safer. Geosynthetics considerably increase the durability and resilience of road infrastructure by reducing the effects of traffic-induced stress and temperature changes.

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Road Reinforcement



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A Geosynthetic products like Geotextile and/or Geogrid Geocomposites are used in road construction for separation, filtration, and reinforcement purposes. Geosynthetics are indispensable in road reinforcement, bolstering the structural integrity of roadways. Road construction layers incorporate geogrids and geotextiles to distribute loads, reduce rutting, and boost overall load-bearing capacity. Geosynthetics decrease the requirement for thicker pavement sections, resulting in cost savings and increased performance by increasing the interaction between different road materials.

Soil Stabilization and Pavements



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In applications for pavement and soil stability, geosynthetics are crucial. Reinforcing soil and aggregate layers with geogrids and geotextiles effectively distributes loads and boosts pavement strength.

Geosynthetics increase the structural integrity and performance of pavements by reducing the possibility of rutting and extending pavement life. With the help of this application, roads can be built more affordably, with less maintenance required, and with better driving conditions. In order to achieve robust infrastructure that can resist high traffic volumes and varied environmental conditions and support sustainable transportation systems, geosynthetics are used in soil stabilization.



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