



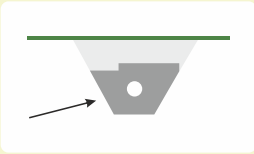
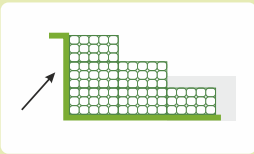
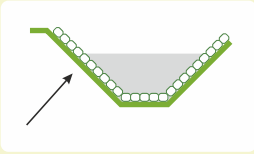

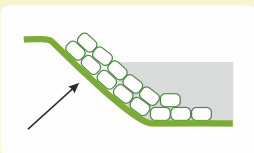
**Jeevan**  
Ecotex  
Sustainable Weaves

EcoTextiles

EcoTextiles form one of the two largest group of geosynthetics with their use growing significantly over the years. They are textiles made of synthetics which may be woven, non woven or knitted and are totally biodegradable. The flexible porous quality allows water to flow across their manufactured plane and also within their place to widely varying degrees.

EcoTextile is used in civil engineering, coastal engineering and construction sites. Generally, EcoTextiles are located in the tension area to make the soil stronger.



Typical Application	Types of Application	Required EcoTextile Functions
 <p>EcoTextile</p>	<p>Subdrains, French Drains Foundation Drains, Trench Drains, Blanket Drains</p>	<p>Filtration, Drainage</p>
 <p>EcoTextile</p>	<p>Gabion Lining, Retaining Walls, Drop Structure, Ditch Lining</p>	<p>Filtration, Drainage</p>
 <p>EcoTextile</p>	<p>Revetments, Channel Linings, Rivers/Creeks  Lighter Coastal, Applications</p>	<p>Filtration, Drainage, Reinforcement</p>
 <p>EcoTextile</p>	<p><b>Roadways</b> Access Routes, Industrial Yards, Logging Roads</p> <hr/> <p><b>Railways</b> Track Rehabilitation, New Track Construction</p>	<p>Seperation, Reinforcement, Road maintance</p> <hr/> <p>Seperation, Reinforcement, Drainage</p>
 <p>EcoTextile</p>	<p>Heavy Shore-line Protection, Coastal Protection, Scour Areas, Rockfill Structures, Dykes, Energy Dissipators</p>	<p>Filtration, Drainage</p>

# Functions

EcoTextiles are used in a wide range of applications, which continues to grow as new forms of EcoTextiles are developed. The primary applications are erosion control, soil filtration, road sub-base separators, reinforcing soils in embankments and retaining walls, and protection of EcoMembranes. However, the four basic functions are -



## Drainage

The use of EcoTextiles in drainage has some outstanding advantages and it has made significant strides in changing the conventional procedure of using graded filters.



## Filtration

EcoTextiles function as filters allowing adequate fluid to flow while holding back the other soil particles across its plane over a layer.



## Separation

When used as a separator, EcoTextiles prevent the intermixing of particles from two layers with different properties to prevent contamination.



## Reinforcement

EcoTextiles reinforce the weak sub-grade or subsoil and help to strengthen the soil surface and to increase the soil stability especially on the slopes.



## Nonwoven EcoTextile

## Specification

EcoTextile available as per ASTM standard  
example wide width tensile strength ranges  
from 2 kn/m to 60 kn/m

GSM - 80 TO 1000

Width - upto 6 mts

Thermally bonded needlepunched EcoTextile also available

# Design Properties

- ✓ Wide width tensile strength
- ✓ Apparent opening size (aos)
- ✓ Permeability
- ✓ CBR puncture resistance
- ✓ Grab tensile strength & elongation

## Benefits



### Durability

Each of these functions over years need highly specific textile performance characteristics and durability, the key requirement, is met.



### Efficiently

Many applications require several functions to be met simultaneously. EcoTextiles do the job well.



### Cost Saving

Geotechnical solutions turn out to be very cost effective with their efficiency and durability.

## About Us

Jeevan Ecotex is a leading manufacturer of technical textile with state-of-the-art manufacturing facilities at multiple locations. It is an ISO 9001: 2015 certified company, providing customised solutions.

## Why Jeevan Ecotex

We are uniquely placed as the only major geosynthetics player with in-house installation capabilities and our own manufacturing unit. Other advantages are –

- Strong brand association with reputed clients
- Continuous online monitoring of production
- Traceability with no human errors
- Products customised as per requirements
- Cost friendly & environment friendly manufacturing methods

Jeevan Ecotex Private Limited

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