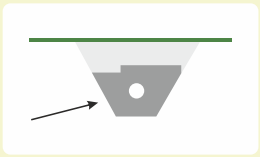
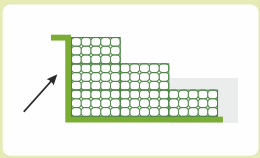
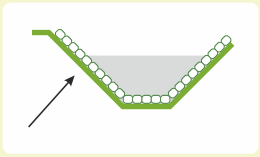
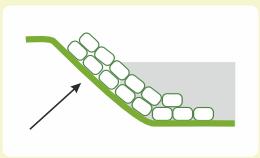
Jeevan
Ecotex
Sustainable Weaves

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
 EcoTextile	Subdrains, French Drains Foundation Drains, Trench Drains, Blanket Drains	Filtration, Drainage
 EcoTextile	Gabion Lining, Retaining Walls, Drop Structure, Ditch Lining	Filtration, Drainage
 EcoTextile	Revetments, Channel Linings, Rivers/Creeks Lighter Coastal, Applications	Filtration, Drainage, Reinforcement
 EcoTextile	**Roadways** Access Routes, Industrial Yards, Logging Roads **Railways** Track Rehabilitation, New Track Consrtuction	Seperation, Reinforcement, Road maintance Seperation, Reinforcement, Drainage
 EcoTextile	Heavy Shore-line Protection, Coastal Protection, Scour Areas, Rockfill Structures, Dykes, Energy Dissipators	Filtration, Drainage

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

Design Parameter

- Eco Textile available as per ASTM/ISO/BIS standard
- Wide width tensile strength in Nonwoven Geo Textiles available upto 100kn/m
- GSM available from 80 to 2000
- Wide Width – upto 6 mtrs available.
- 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

- Geotextiles are biologically and chemically inert, making them the least susceptible to bio-degradation and more durable.
- The tear strength of geotextiles is exceptionally high. There is also the option of building increased strength right into the weft, if necessary.
- Because of its straight incorporation system, geotextiles can take on strain right after loading.
- Additional fabric can be incorporated to form composite geotextile.
- 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 nonwoven player with in-house R&D capabilities and multiple manufacturing units in Maharashtra, India. Other advantages are

- Strong brand association with reputed clients
- Continuous online monitoring of production
- Products customized as per requirements
- Cost-effective environment-friendly manufacturing
- Fast turnaround times

Jeevan Ecotex Private Limited

1109/B, Kailas Business Park, Kailas Complex,Park Site, Vikroli Powai Link Road, Powai, Mumbai - 400 079.

+91 22 4971 3715 / +91 7045909371 sales@jeevanecotex.com jeevanecotex.com