

# Geotextiles

The most common product in the family of Geosynthetics is non woven geotextile fabrics. This product is a random assembly of synthetic fibers, put together, which are mechanically & thermally bonded to make into a single layer, commonly made of non woven polypropylene [geotextiles](#) and polyester types. [Geotextile](#) fabrics are manufactured that based on typical application required. A Geotextile fabric is permeable in nature, it connects with the soil and having a ability to separate, filter, drain, repair in easy manner.

The weight range of this product in civil engineering applications are typically ranging from 100gsm to 2000gsm. Its main function is 1) Filtration 2) Separation 3) Reinforcement and 4) Drainage.

## Applications

1. Road construction, highways and highway embankments.
2. Airport runways.
3. Shore protection in reclamation works.
4. Asphalt repaving of roads.
5. Coastal and riverbank revetment systems.
6. Filtration.
7. Drainage.
8. Composites.
9. Protection for geomembrane in landfills.
10. Geobags manufacturing.
11. Soil erosion control.

As a Separator used between unsuitable material and good bag filled material, this usage will reduce the excavation depth of unsuitable sub-grade. It reduces the aggregate thickness to stabilize the sub-grade. The non-woven geotextile fabric maintains a uniform settlement of the sub-grade and hence improves the sub grade strength and prolongs the life of the system.

As a Filtration polypropylene geotextile have different range of pore openings to reduce the potential of clogging. The range of pore openings shall be compared to the grain size of the material to be filtered to obtain the optimum Filtration.

Amrit Filtration Equipments geotextiles not only acts as a filter and a separator but also reduces the maintenance of erosion control systems and costs.

Besides providing high puncture resistance, it also provides lateral in-plane drainage for the system. It effectively filters fine slit soils that are subjected to turbulent flow. Hence maintaining and enhancing the stability of erosion protection structures.

Geotextile require the careful placing to avoid the complete installation procedure that helps you to damage from any puncture, rupture or tearing issues.

As reinforcement non-woven geotextiles' function involves stabilization of a soil mass by provision of tensile strength fabric system.

Drainage is related to the role of Filtration and is a function of the permeability of a geotextile and its pore opening size or photometry. Water is conveyed along the plane of the non-woven Geotextile due to its construction and then to an outlet. Water may be vertically or horizontally conveyed.

### **Benefits with Amrit**

We offer an ample array of highly efficient Geotextile fabrics, which are manufactured from the premium quality raw materials. We are counted among the distinguished geotextile suppliers in India.

Our non woven geotextile fabrics are available in various dimensions and sizes and can be customized as per the demand of the client. These non woven geotextile fabrics are very popular among the people due to their high reliability and brilliant performance.

They are the perfect blend of long lasting life and nonpareil quality. We provide our geotextile fabrics within the specified period of time and that too at very reasonable prices.

With the help of us, you can use the geotextile in reinforcing layers in the construction of embankments and compacted between two layers fills.

**Amrit Filtration Equipment**