

dp aerogels 

# AeroTex™

SEPARATION, FILTRATION & REINFORCEMENT  
GEOTEXTILE SOLUTIONS

 Engineering a greener future, together.



# Brand Overview

PRODUCT NAME: AEROTEX™

AeroTex™ is DP Aerogels' line of high-performance geotextiles for civil and environmental engineering applications. The name connects to our aerogel heritage while positioning the product within the established geotextile market.

AeroTex™ extends DP Aerogels' commitment to quality engineering materials into the geosynthetics sector, offering proven geotextile solutions backed by our technical expertise and customer service.







# Product Description

Non-Woven Geotextile AeroTex™ Geotextile is made from the highest quality polyester yarns which are needle punched to form a strong fabric that retains its dimensional stability, adding years to the life of any roadways, railroads, landfills or civil/environmental engineering projects.

AeroTex™ is properly designed to meet physical and hydraulic characteristics such as textile strength and tearing strength for civil works applications. The manufacturing process ensures even void distribution between fiber textures, and Apparent Opening Size (AOS) is equally formed to achieve optimal hydraulic function.

The placement of AeroTex™ Geotextile between soft subgrade and granular material provides one or more of the following functions:

- A filter to allow water but not soil to pass through.
- A separator to prevent the mixing of soft soil and granular material.
- A reinforcement layer to resist the development of rutting and differential settlement.



# Product Range

## AEROTEX™ NW SERIES

### NON-WOVEN GEOTEXTILE

| PRODUCT     | DESCRIPTION                        | WEIGHT RANGE      |
|-------------|------------------------------------|-------------------|
| AEROTEX™ NW | Nonwoven Needle-Punched Geotextile | 110 GSM – 700 GSM |

*Material: 100% Polyester (needle punched)*

## AEROTEX™ WV SERIES

### WOVEN GEOTEXTILE

| PRODUCT       | DESCRIPTION                                  | WEIGHT RANGE    |
|---------------|--|-----------------|
| AEROTEX™ WV-R | Woven Multifilament Polyester Geotextile     | UP TO 1000 KN/M |
| AEROTEX™ WV-P | Woven Multifilament Polypropylene Geotextile | UP TO 200 KN/M  |
| AEROTEX™ WV-T | Woven Polypropylene Tape Geotextile          | UP TO 50 KN/M   |



# Product Range

## AEROTEX™ PAVE

### PAVING FABRIC

Paving fabric that reduces stresses in new overlay and increases the life of road surfaces. Functions as a Stress Absorbing Membrane Interlayer (SAMI) to retard reflective cracking.

#### Benefits:

- Stress normally transferred from cracks in old pavement into the overlay is absorbed in the fabric interlayer.
- The ability of the wearing course to resist tensile stress is increase

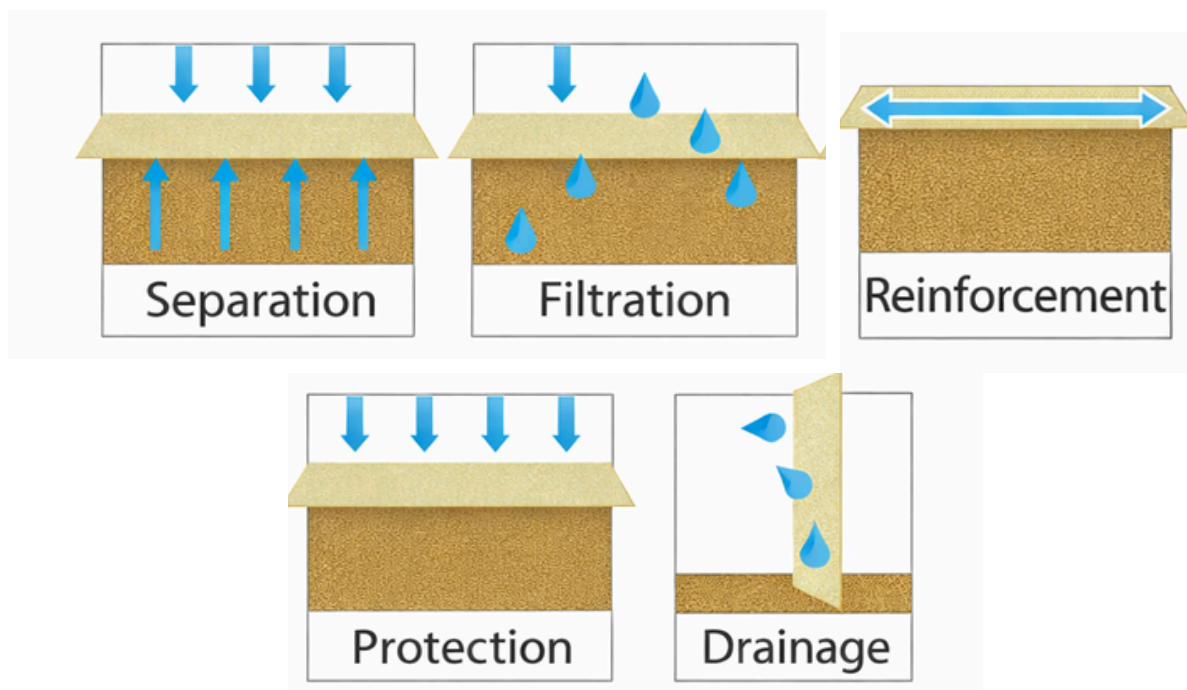
## AEROTEX™ TUBE

### GEOTEXTILE CONTAINMENT TUBES

Designed for use along coastal shorelines, stream banks, and wetland perimeters for protection against storms, currents, and other erosive forces

# Primary Functions

| FUNCTION              | DESCRIPTION   |
|-----------------------|---|
| SEPARATION            | Permanently prevents the mixing of two materials (e.g., soft subgrade and aggregate base)   |
| FILTRATION            | Provides permanent mechanical and hydraulic filter stability, retaining fine particles when water passes from fine-grained to coarse-grained soil |
| REINFORCEMENT         | Increases soil shear strength by providing bonding mechanism of the geotextile-soil system to improve soil quality and structural stability       |
| PROTECTION            | Provides permanent protection of synthetic sealing systems (geomembranes) against mechanical damage during installation and after construction    |
| DRAINAGE              | Provides water drainage and gas venting in the plane of the geotextile  |
| WATERPROOFING SUPPORT | Acts as support material for impregnations with bitumen or plastic-modified sealing materials   |





# Applications

ROAD CONSTRUCTION



HYDRAULIC & COASTAL PROTECTION



RAILWAY WORKS



LANDFILL CONSTRUCTION



SUB-SURFACE DRAINS



SILT FENCE APPLICATION



# Product Characteristics

## KEY BENEFITS

| BENEFIT                    | DESCRIPTION   |
|----------------------------|---|
| HIGH DIMENSIONAL STABILITY | Retains shape and structure under load                              |
| UV RESISTANT               | Excellent resistance to ultraviolet degradation                     |
| CHEMICALLY RESISTANT       | Resistant to chemical environments found in soil                    |
| BIOLOGICALLY RESISTANT     | Resistant to biological degradation                                 |
| ENVIRONMENTALLY SAFE       | Extracts no environmental contamination                             |
| TEMPERATURE STABLE         | Maintains stability under extreme temperatures                      |
| EVEN VOID DISTRIBUTION     | Consistent void spaces between fiber textures                       |
| CONSISTENT AOS             | Equally formed Apparent Opening Size for optimal hydraulic function |



# Contact

DP Aerogels Manufacturing Facility - Malaysia

Lot 43824, Jalan Tech Valley 1/2, Bandar Sri  
Sendayan, 71950 Seremban, Negeri Sembilan,  
Malaysia

Web: [www.dpaerogels.com](http://www.dpaerogels.com)

Contact: Jack (CEO) +65 9725 9715  
Wen Hong (BD) +6012 979 8233

