



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 increased

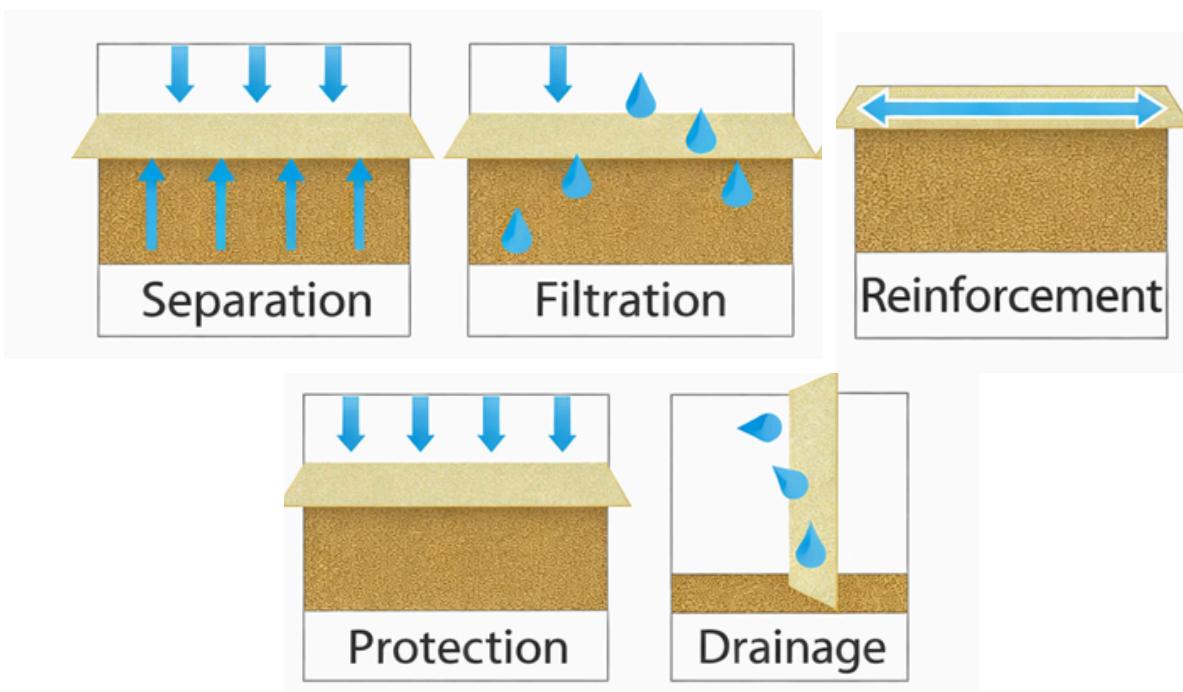
AEROTEX™ TUBE

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

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