



**WOVEN  
GEOTEXTILES**

Geonia® is a registered trademark of  
DAEYOUN GEOTECH

# GEONIA® ITEMS

## DM Seriese

### DM

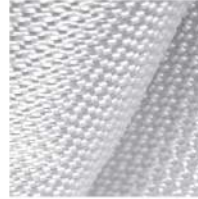


The DM is a woven geotextile made using a high tenacity polyester multifilament yarn. The DM series is used for an industrial complex, a port, and a field used dredged soil, which receives all power in both directions. A characteristic of the fabric is that it maintains a stable form by using high-strength interwoven fibers (in both width and length direction) and it is widely used for reinforcing and separation.

#### APPLICATION

Reclamation Field    Container Terminal  
Industrial complex    Airport & Port

### DM H



The DM H is a high permeability woven geotextile made using a high tenacity polyester multifilament yarn. The specification is applicable to the use of a geotextile in wet, saturated conditions to provide the function of reinforcement and separation.

#### APPLICATION

Reclamation Field    Container Terminal  
Industrial complex    Airport & Port

## DML Seriese

### DML



The DML is a woven geotextile made using high tenacity polyester multifilament yarn. It is used for the subgrade stabilization of road, embankment, and railway construction, where shear failure occurs in only one direction. A feature of this fabric is that it minimizes soil behavior by using the function of straining in the direction where shear failure takes place.

#### APPLICATION

Embankment on soft Soil Foundation    Road and Rail Construction  
Embankment on piles and over Cavities    Reinforcing Embankment  
Temporary Detour Road

### DML H



The DML H is a high permeability woven geotextile made using high-tenacity polyester multifilament yarn. DML H fabrics are applied for the reinforcement of roads, railways, and embankments in saturated conditions and rainy regions.

#### APPLICATION

Embankment on soft Soil Foundation    Road and Rail Construction  
Embankment on piles and over Cavities    Reinforcing Embankment  
Temporary Detour Road

## DMP Seriese

### DMP



The DMP series is a woven geotextile made using a high tenacity PP multifilament yarn. It is widely used for the separation of natural ground and drainage layers. The DMP series is more lightweight for enhance the construction ability and higher strength than film yarn.

#### APPLICATION

Separation Layer PVD    Reclamation Field

### DMP H



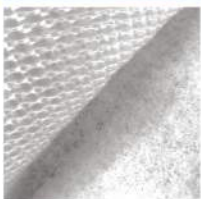
The DMP H series consists of high-strength woven geotextile fabrics that have high permeability and are made of polypropylene split yarn. The DMP H series is used for filtration, erosion control and confinement function.

#### APPLICATION

Marine Structure    Geo-container & Geobag  
Bank Protection    Hydraulic Engineering    Breakwater

## DPC Seriese

### DPC



The DPC series is a combination of high strength woven geotextile and staple fiber nonwoven geotextiles by needle punched. The products are suited to applications in which a high demand is placed on the geotextile's reinforcement, filtration, drainage, protection and physical robustness.

#### APPLICATION

Hydraulic Engineering    Geo-container & Geotube  
Other usage for multi-functional application

## CONTACT INFORMATION

### Overseas Sales Department

Tel : +82-2-539-9700

Fax : +82-2-539-9710

E-mail : overseas@dygeotech.com



## Essential Woven Geotextiles

Quality **YES!**

Capacity **YES!**

That's **GEONIA!**

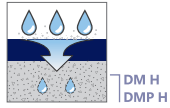
GEONIA® is a reliable and leading korean manufacturer also exporter of high strength woven geotextiles made of polyester and polypropylene yarns. We have invested in equipment development and factory construction in Gimcheon city, Korea and kept upgrading the factory facilities consistently. As a result, we have the largest manufacturing factory in korea with the capacity of producing 20 million square meters per year.

GEONIA® has concentrated on manufacturing polyester & polypropylene woven geotextiles for separation and reinforcement of soil ground and for retaining ground stabilization. We also develop geosynthetics, under the mission of protecting environment as well as human, and supplying high efficient and cost-effective solutions to global clients.

## History

- **2014** Attended the booth in 7<sup>th</sup> International Congress on Environmental Geotechnics in Australia  
Attended the booth in 10<sup>th</sup> International Conference on Geosynthetics in Germany  
Audit & Renew CE mark  
Qualified for Certificate of Product-Specific Approved Exporter
- **2013** Became a member of GMA  
Audit & Renew CE mark  
Built 2<sup>nd</sup> factory in Gimcheon city, Korea  
Attended the booth in Geosynthetics2013 in Long Beach, CA, U.S.A..
- **2012** Launched new brand GEONIA® of the geosynthetics by Daeyoun Geotech Co., Ltd.  
Established Daeyoun Geotech Co., Ltd. Geosynthetics's R & D Center  
Qualified for European Certification of CE Mark from SKZ in Germany  
IGS Membership  
Attended the booth in Geosynthetics Asia 2012 in Bangkok, Thailand
- **2011** Registered the certificate of Patent about the silt protector
- **2009** Expansion of Gimcheon Plant, Korea  
Renewed ISO 9001, ISO 14001  
Assigned as a innovative company by Small and medium Business Administration
- **2008** Completion of Gimcheon Plant  
Annual contract with Korean Public Procurement Bureau for Woven Geotextile
- **2006** Renamed to Daeyoun Geotech Co., Ltd.  
Woven Geotextile business separated from Daeyoun Textech Co., Ltd.
- **1991** Established Daeyoun Textech Co., Ltd.

## Functions & Application



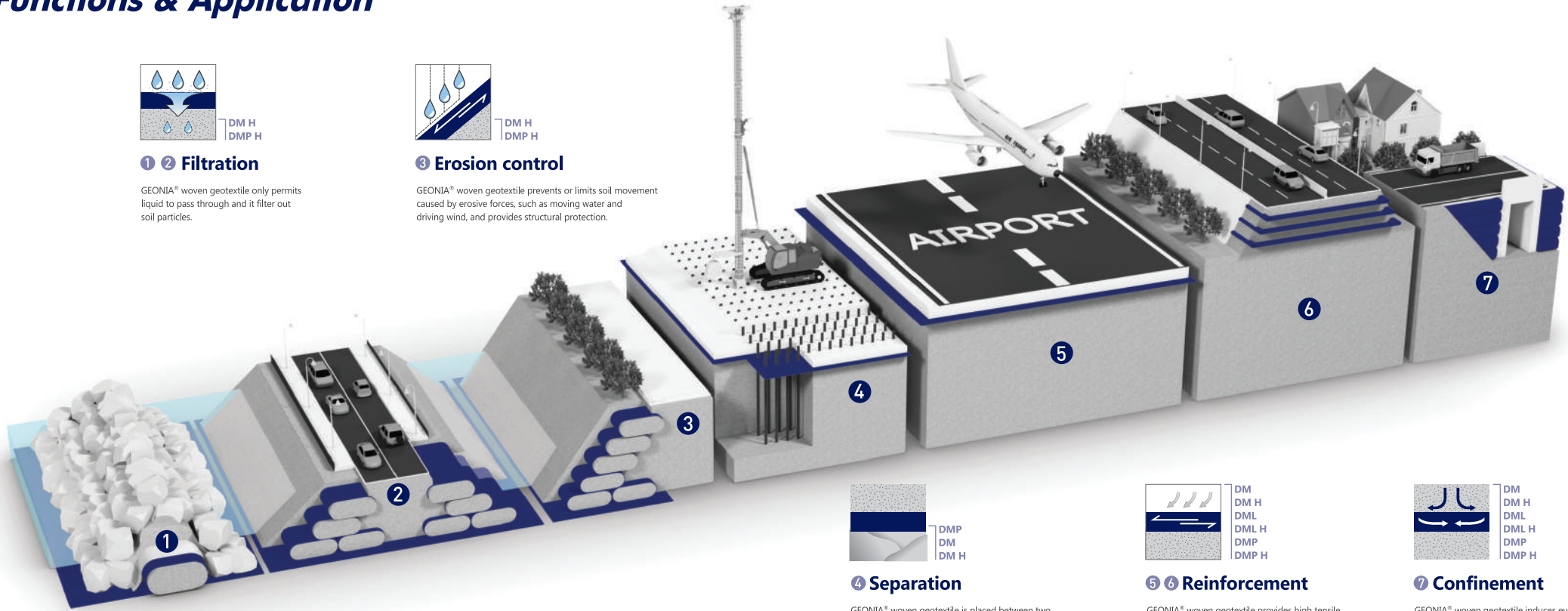
### 1 2 Filtration

GEONIA® woven geotextile only permits liquid to pass through and it filter out soil particles.



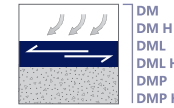
### 3 Erosion control

GEONIA® woven geotextile prevents or limits soil movement caused by erosive forces, such as moving water and driving wind, and provides structural protection.



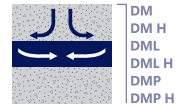
### 4 Separation

GEONIA® woven geotextile is placed between two dissimilar materials to prevent mixing. Each material maintains its separate function, and their unique features are also maintained by using a geotextile.



### 5 6 Reinforcement

GEONIA® woven geotextile provides high tensile strength and low elongation, which are important mechanical properties to prevent and hold structure.



### 7 Confinement

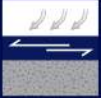




GEONIA® woven geotextile induces even settlement with high tensile strength and produces a powerful confinement effect with its surface friction force.



- **HEAD OFFICE (SEOUL)** Tel : +82-2-539-9700 Fax : +82-2-539-9710  
No. 1121, Poonglim Bldg., Gongdeok-dong, Mapo-gu, Seoul, 121-718, Rep. of KOREA  
E-mail : overseas@dygeotech.co.kr
- **R&D CENTER (GIMCHEON)** Tel : +82-2-539-9700 Fax : +82-2-539-9710  
55-2, Dogok-ri, Jirye-myoen, Gimcheon-si, Gyeongsangbuk-do, 740-932, Rep. of KOREA
- **FACTORY 1 (GIMCHEON)** Tel : +82-54-436-0800 Fax : +82-54-436-0550  
55-2, Dogok-ri, Jirye-myoen, Gimcheon-si, Gyeongsangbuk-do, 740-932, Rep. of KOREA
- **FACTORY 2 (GIMCHEON)** Tel : +82-54-436-0810 Fax : +82-54-436-0812  
123, Apogongdan-gil, Apo-eup, Gimcheon-si, Gyeongsangbuk-do, 740-862, Rep. of KOREA
- **VIETNAM SALES OFFICE (HOCHIMINH)** Tel : +84-8-39482655 Fax : +84-8-39482655  
1st Floor, 9-11 D52 street, Ward 12, Tan Binh Dist., Hochiminh City, Vietnam  
E-mail : vietnam@dygeotech.co.kr
- **JAPAN SALES OFFICE(TOKYO)** Tel : +81-3-3507-9595 Fax : +81-3-5532-8624  
Nakagawa Bldg., 4FL. 1-14-8, Nishishinbashi, Minato-ku, Tokyo, JAPAN 105-0003



# GUIDE LINE OF GEONIA®

Brand / Material	Fabric Structure	Item / Function	 Reinforcement	 Confinement	 Separation	 Erosion control	 Filtration	Characteristics of Product	
GEONIA® PET / High Tenacity Polyester yarn	Biaxial	DM	DM10	☒	☒	☒			High Density Durable Fabric
			DM15	☒	☒	☒			
			DM20	☒	☒	☒			
			DM25	☒	☒	☒			
			DM30	☒	☒				
			DM40	☒	☒				
	DM H	DM10H	☒	☒	☒	☒	☒	High Strength High Permeability	
		DM15H	☒	☒	☒	☒	☒		
		DM20H	☒	☒	☒	☒	☒		
	Uniaxial	DML	DML10	☒	☒				High Strength Low Elongation
			DML15	☒	☒				
			DML20	☒	☒				
			DML30	☒	☒				
			DML40	☒	☒				
			DML50	☒	☒				
		DML H	DML60	☒	☒				High Strength Low Elongation High Permeability
			DML 60 /10	☒	☒				
			DML10H	☒	☒			☒	
DML20H			☒	☒			☒		
DML30H			☒	☒			☒		
DML40H			☒	☒			☒		
DMP	DMP	DMP5	☒	☒	☒			Chemical Resistance, Field Workability	
		DMP10	☒	☒	☒				
	DMP H	DMP5H	☒	☒		☒	☒		
		DMP10H	☒	☒		☒	☒		