

The Eco-Bag

How it works

Uniquely designed geotextiles is High strength permeable material with retention properties are fabricated into Eco-bag . Fine grain sludge, hazardous contaminated soils or dredged waste materials can be filled in. The geotextiles unique fabrication provide small pores that effectively dewatering wastes and controlling odors by confine the contained material.



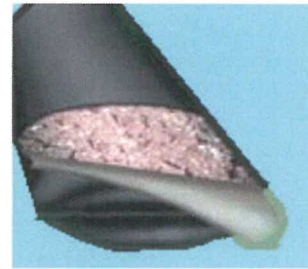
Excess water drains from the Eco - bag through the small pores in the geotextiles resulting in effective dewatering and efficient volume reduction of the contained material. This volume reduction allows for the repeated filling of the Eco-bag.



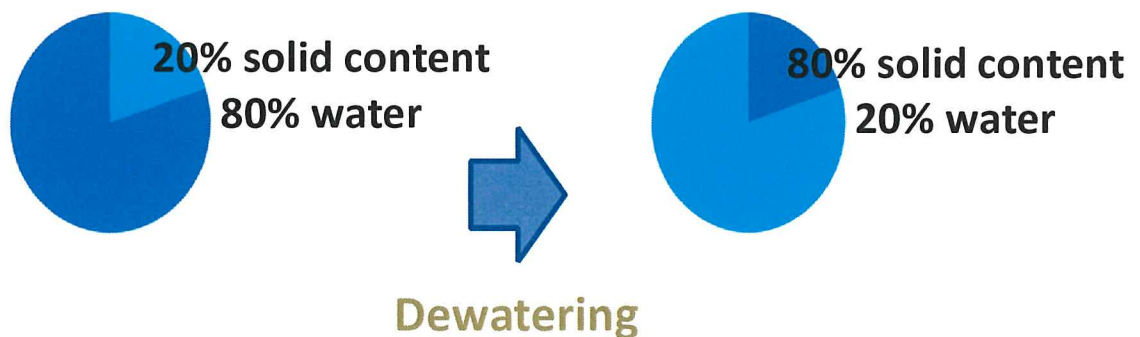
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After the final cycle of filling the dewatering, the retained fine grain sludge can continue to consolidate by desiccation because the residual water vapor escapes through the geotextile. This results in the most cost effective residue state for disposal.



Sludge in Eco-bag



DFK Geosynthetics

Product Data Sheet DW200

DW200 technical fabric is a polypropylene, UV stabilized, high strength, woven geotextile, used for many civil engineering and building applications. It is manufactured at one of DFK Geosynthetics facilities that have achieved ISO 9001:2008 certification for its systematic approach to quality. It is also resistant to many chemicals and biological agents. DW200 conforms to the property values listed below. All technical data are based on statistical analysis from internal and external laboratory results.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE
MECHANICAL				
Tensile Strength (MD/CD)	EN 10319	Average	kN/m	200.0 -20.0/-20.0
Elongation (MD/CD)	EN 10319	Average	%	20/15 ±2/±1.5
Resistance to static puncture	EN ISO 12236	Average	kN	18 -1.8
Seam Strength	EN ISO 10321	Average	kN/m	160 -16
Dynamic Perforation resistance	EN ISO 13433	Average	mm	8 +1
HYDRAULIC				
Characteristic Opening Size (O ₉₀)	EN ISO 12956	Average	µm	400 ±40
Water flow rate	EN ISO 11058	Average	l/m ² /sec	20 -6
ENDURANCE				
Weathering Resistance (MD/CD)	EN 12224	Average	%retained	90/90 -
Resistance to Liquids – Acid (MD/CD)	EN 14030	Average	%retained	90/90 -
Resistance to Liquids – Alkaline (MD/CD)	EN 14030	Average	%retained	90/90 -
Oxidation Resistance (MD/CD)	EN ISO 13438	Average	%retained	90/90 -
Resistance to Abrasion (MD/CD)	ASTM D4886	Average	%retained	80/80 -
PHYSICAL				
Mass/Unit Area	EN 9864	Average	gr/m	900 ±90
STANDARD PACKING				
Roll Width	Measured	Typical	m	5.4 -0.05
Roll Length	Measured	Typical	m	100 ±2

NOTES:

1. All the above figures are averages values obtained from testing to current EN standard in our laboratory and at external institutes.
2. DFK Geosynthetics Technical Fabrics reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current.
3. Polypropylene is the constituent polymer used in the production of the WG geotextiles series.

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DFK Geosynthetics

Product Data Sheet DW100

DW100 technical fabric is a polypropylene, UV stabilized, high strength, woven geotextile, used for many civil engineering and building applications. It is manufactured at one of DFK Geosynthetics facilities that have achieved ISO 9001:2008 certification for its systematic approach to quality. It is also resistant to many chemicals and biological agents. DW100 conforms to the property values listed below. All technical data are based on statistical analysis from internal and external laboratory results.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE
MECHANICAL				
Tensile Strength (MD/CD)	EN 10319	Average	kN/m	100.0 -10.0/-10.0
Elongation (MD/CD)	EN 10319	Average	%	20/20 ±2/±2
Resistance to static puncture	EN ISO 12236	Average	kN	8 -0.8
Seam Strength	EN ISO 10321	Average	kN/m	80/80 -6/-8
Dynamic Perforation resistance	EN ISO 13433	Average	mm	8 +1
HYDRAULIC				
Characteristic Opening Size (O ₉₀)	EN ISO 12956	Average	µm	230 ±23
Water flow rate	EN ISO 11058	Average	l/m ² /sec	20 -6
ENDURANCE				
Weathering Resistance (MD/CD)	EN 12224	Average	%retained	90/90 -
Resistance to Liquids – Acid (MD/CD)	EN 14030	Average	%retained	90/90 -
Resistance to Liquids – Alkaline (MD/CD)	EN 14030	Average	%retained	90/90 -
Oxidation Resistance (MD/CD)	EN ISO 13438	Average	%retained	90/90 -
Resistance to Abrasion (MD/CD)	ASTM D4886	Average	%retained	80/80 -
PHYSICAL				
Mass/Unit Area	EN 9864	Average	gr/m	450 ±45
STANDARD PACKING				
Roll Width	Measured	Typical	m	5.4 -0.05
Roll Length	Measured	Typical	m	100 ±2

NOTES:

1. All the above figures are averages values obtained from testing to current EN standard in our laboratory and at external institutes.
2. DFK Geosynthetics Technical Fabrics reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current.
3. Polypropylene is the constituent polymer used in the production of the WG geotextiles series.

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DFK Geosynthetics

Product Data Sheet DNW006

DNW006 technical fabric is a polypropylene, UV stabilized, high strength, nonwoven geotextile, used for many civil engineering and building applications. It is manufactured at one of DFK Geosynthetics facilities that have achieved ISO 9001:2008 certification for its systematic approach to quality. It is also resistant to many chemicals and biological agents. **DNW006** conforms to the property values listed below. All technical data are based on statistical analysis from internal and external laboratory results.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE
MECHANICAL				
Tensile Strength (MD/CD)	EN 10319	Average	kN/m	6.5/6.5 -0.65/-0.65
Elongation (MD/CD)	EN 10319	Average	%	50/50 ±10/±10
Resistance to static puncture	EN ISO 12236	Average	kN	0.9 -0.1
Seam Strength	EN ISO 10321	Average	kN/m	5.2/5.2 -0.5/-0.5
HYDRAULIC				
Characteristic Opening Size (O_{90})	EN ISO 12956	Average	μm	100 ±10
Water flow rate	EN ISO 11058	Average	1/m ² /sec	75 -7.5
ENDURANCE				
Weathering Resistance (MD/CD)	EN 12224	Average	%retained	80/80 -
Resistance to Liquids – Acid (MD/CD)	EN 14030	Average	%retained	80/80 -
Resistance to Liquids – Alkaline (MD/CD)	EN 14030	Average	%retained	80/80 -
Oxidation Resistance (MD/CD)	EN ISO 13438	Average	%retained	80/80 -
Resistance to Abrasion (MD/CD)	ASTM D4886	Average	%retained	80/80 -
PHYSICAL				
Mass/Unit Area	EN 9864	Average	gr/m	200 ±20
STANDARD PACKING				
Roll Width	Measured	Typical	m	5.4 -0.05
Roll Length	Measured	Typical	m	100 ±2

NOTES:

1. All the above figures are averages values obtained from testing to current EN standard in our laboratory and at external institutes.
2. DFK Geosynthetics Technical Fabrics reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current.
3. Polypropylene is the constituent polymer used in the production of the WG geotextiles series.

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