



NON-WOVEN GEOTEXTILES

Nonwoven Geotextile Drainage Fabric

Nonwoven geotextiles, a durable erosion control fabric, is the perfect solution for your drainage, filtration, erosion control, and permanent sediment reinforcement applications. Because our nonwoven drainage has a high flow through rate, it lets water pass through while still filtering out debris and pollutants.

Made from synthetic polypropylene fabric, our nonwoven geotextiles are ideal for application from landscaping to aggregate separation to road stabilization. We offer a wide range of nonwoven filter fabrics, available from light to heavy weights. Let us help you find the filter fabric to fit your project, budget and specific application.



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Nonwoven Filter Fabric

Filter Fabrics For All Your Needs

Non-woven geotextile is a felt-like fabric made by bonding polypropylene using needle punching, calendaring and other methods. This needle-punched design acts as a permeable separation, allowing water to pass through while preventing soils and other material from passing through. This ensures you are able to achieve high flow rates for filtration and consistent soil interaction. All of the options we offer are made of durable fabric that is UV, tear, and puncture resistant. Our drainage fabrics are available in weights ranging from 3 oz. (light weight fabrics) to 16 oz. (heavy weight fabrics). See our all of filter fabric options to find the right nonwoven filter fabric for your project needs.



Non Woven Geotextile Features

- 100% Polypropylene Fibers
- Needle-Punched Design
- High Water Flow rates and Soil Interaction
- Tear and Puncture Resistant
- Rot-Resistant Fabric

Non Woven Geotextile Benefits

- Durable Construction and Design
- Filtration and Drainage Applications
- Multiple Weights and Strengths
- UV Resistant
- High Strength and Chemical Resistant



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Nonwoven Filter Fabric

Non-woven Filter Fabric

Non-woven geotextile needle punched fabrics are UV and rot-resistant, constructed to have high permittivity and water flow rates. This high flow through rate makes nonwoven geotextile fabric perfect for filtration and permanent sediment control. Our nonwoven drainage fabrics typically come in rolls available in either 12.5' W x 360' L or 15' W x 300' L. Multiple rolls can be connected together during installation to meet the required length and width of your location. See our non-woven geotextile specification charts for more information on water flow rates and tensile strength.



Non-Woven Geotextile Specification

Model (By Weight)	Tensile Strength	Permittivity	Water Flow	UV Resistance	Roll Size
3.1 oz	80 lbs	2.2 sec -l	150 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 360 ft
3.5 oz	90 lbs	2 sec -l	150 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 360 ft
4 oz	100 lbs	2 sec -l	140 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 360 ft
4.5 oz	120 lbs	1.7 sec -l	120 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 360 ft
6 oz	160 lbs	1.63 sec -l	125 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 300 ft
8 oz	225 lbs	1.25 sec -l	80-90 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 300 ft
10 oz	250 lbs	1.2 sec -l	80 gpm/ft ²	70% / 500 hrs	12.5 ft x 360 ft 15 ft x 300 ft
12 oz	300 lbs	1 sec -l	75 gpm/ft ²	70% / 500 hrs	12.5 ft x 300 ft 15 ft x 300 ft
16 oz	380 lbs	0.7 sec -l	50 gpm/ft ²	70% / 500 hrs	15 ft x 150 ft

For higher strength nonwoven geotextile fabrics, we have a wide selection of options that feature increased weight, higher grab tensile strength, and more rigid fabric structures. For additional information see our [Erosion Control Line Card](#).



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Nonwoven Filter Fabric

Mirafi® Nonwoven Filter Fabric

Another popular nonwoven geotextile is our Mirafi® nonwoven fabric. High in permeability and strength, this geotextile filter fabric offers effective filtration for both low and high flows. These high-strength geotextiles are designed to help with aggregate separation, and provide filtration and foundation on site. We offer a wide range of Mirafi® nonwoven fabric from light to heavy weight. Mirafi® filter fabrics are great for landscaping, sediment control, drainage, soil separation, erosion control, cushioning and many other related applications. Our Mirafi® are available in a variety of weights and strengths.

Mirafi® MSCALE

Mscale nonwoven filter fabric is used in soil separation and drainage for lighter landscape projects and asphalt overlay. Ideal for landscaping, Mirafi® Mscale prevents existing weed growth and suppresses new weed growth. This filter fabric is easy to cut into any shape with household scissors or simple tools.

Mirafi® N-Series

Mirafi® N-Series is often utilized in building sites, transportation, and water infrastructure projects for drainage and soil separation. Our Mirafi® N-Series is chemically stable, making this geotextile fabric perfect for permanent erosion control, subsurface drainage, and roadway separation projects. With exceptional soil particle retention, our N-Series combines superior water flow rates, high soil interaction and durability.

Mirafi® S-Series

Our strongest Mirafi® fabric is the S-Series. This Mirafi® geotextile is often used as liner protection in fracking ponds, waste landfills, and other water management systems. Created for environmental, energy infrastructure and natural resource projects, this strong erosion control fabric is a great choice for filtration, separation, drainage and protection. The Mirafi® S-Series provides a cost-effective alternative to graded-aggregate filters and an economical solution for many civil engineering applications.

Our Mirafi® nonwoven filter fabrics come in a variety of weights and tensile strengths. Find out more about all of our [Mirafi® Nonwoven Geotextiles](#).



NON-WOVEN GEOTEXTILES

Applications

Nonwoven Geotextile Applications

Non-woven geotextile filter fabric have a variety of applications across multiple industries. The nonwoven fabric is one of the most commonly used solutions for filtration because the needle-punched design allows water to slowly drain and filter through. Water is able to flow through the fabric while it keeps soil and other materials stabilized on the surface of the geotextile.

Lighter weight geotextiles are used in drainage and landscaping, as a layer of support, and as asphalt overlay to inhibit cracking in asphalt.

Medium weight geotextiles applications include erosion control, stabilization, and drainage projects. Commonly used around French drains and subsurface drains, our drainage fabric filters out silt, allowing water to pass through.

Our heavy weight nonwoven geotextile fabric, like 10 oz. non woven geotextile fabric, is used in applications requiring higher grab tensile strength such as road stabilization and geo-membrane cushioning.

Nonwoven Geotextile Applications

- Filtration
- Stabilization
- Drainage
- Erosion Control, Prevention and Repair
- Reinforcement
- Separation
- Underlayment
- Pipe Wrapping and Trench Drains
- Embankment Stabilization



For more complete information on One Clarion products and solutions, visit us on the web at: www.clarionmunicipal.com or call us at : (+1) 863-261-8388 | info@oneclarion.com

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