

Geofirma® Nonwoven Geotextile

Polyester Continuous Filament Geotextile

Suitable for a wide range of separation and filtration applications



Product Information

Geofirma® nonwoven geotextiles are manufactured from the extrusion of fibres which are then laid down on a manufacturing “bed” and then needle punched to entangle the fibres such that a dimensionally stable product is formed. Some additional thermal treatment is then applied to further improve the strength of the geotextile. Due to the manufacturing processes and that the geotextile product is highly needed, these nonwoven geotextiles are generally best suited for a wide range of geotechnical applications involving drainage, filtration, protection and separation.

Applications

To best assist you in determining which Geofirma® nonwoven geotextile product is right for your application we have developed a ‘Technical Guide on the Selection and Specification of Global Synthetics Geotextiles for Transportation Applications’. This guide indicates, based on long term experience, the candidate geotextile that has generally proven suitable for use in specific environments associated with factors such as temperature, chemical, soils type, damage and ground conditions.

Global Synthetics can assist with additional advice regarding soil reinforcement under embankments, within slopes, over piles, wall design and pavement improvement, using additional specialist geosynthetic products, for such applications.

Geofirma® Nonwoven Geotextile

Benefits

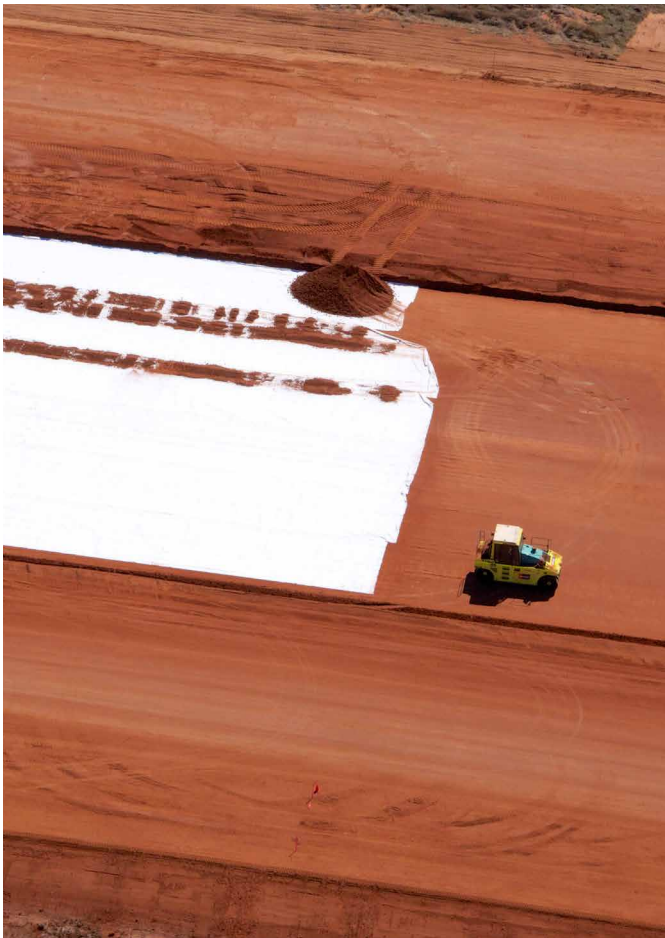
The Geofirma® geotextile product range is quality certified in ISO accredited quality factories to the highest manufacturing standards for both local and international markets. The product is wrapped in a highly UV stable outer wrap such that the product may be left outside, onsite for later use provided the wrapper is not removed prior to deployment and use. For details on how to best store the Geofirma nonwoven geotextile contact your Global Synthetics representative.

The nonwoven geotextile is readily available in warehouses across Australia.

Global Synthetics offers the Geofirma® polyester continuous filament nonwoven geotextile in a range of weights, strengths and filtration characteristics for these engineering applications. Additionally, a number of roll widths and lengths are available across these grades to suit your application.

Features

- Drainage
- Filtration
- Protection
- Reinforcement
- Separation
- Large range to suit the required application
- Proven for use in Government Road Authority works
- Quality Certified
- Stocked in Australian warehouses
- Wide-width roll



Geofirma® Nonwoven Geotextile

Product Data Sheet

Product Grade

Mechanical Properties	Test Method	Units	AS150A	AS200B	AS270C	AS300C	AS350D	AS400D	AS500E	AS540E
Trapezoidal Tear Strength	AS3706.3	N	310	400	480	550	620	740	900	1050
CBR Burst Strength	AS3706.4	kN	1.8	2.5	3.5	4	4.8	5.5	6.3	6.8
Drop Cone H ₅₀	AS3706.5	mm	1700	1950	2280	2500	3000	3400	4100	4400
G-Rating	Austrroads	-	1750	2210	2825	3160	3795	4325	5080	5470
Grab Tensile Strength	AS3706.2	N	780	1070	1330	1600	1870	2130	2400	2870

Hydraulic Properties	Test Method	Units	AS150A	AS200B	AS270C	AS300C	AS350D	AS400D	AS500E	AS540E
Pore Size (EOS)	AS3706.7	microns	110	110	100	100	80	80	75	75
Nominal Flow Rate	AS3706.9	l/m ² /s	210	180	150	140	130	120	110	100
Permittivity	AS3706.9	s-1	2.1	1.8	1.5	1.4	1.3	1.2	1.1	1.0

Physical Properties	Test Method	Units	AS150A	AS200B	AS270C	AS300C	AS350D	AS400D	AS500E	AS540E
Standard Roll Size	-	m	6 x 250	6 x 175	6 x 150	6 x 125	6 x 100	6 x 85	6 x 75	6 x 75
Typical Mass Per Roll	-	kg	230	230	230	230	230	230	230	235

GEOFIRMA® geotextiles are manufactured under ISO 9001 quality assurance procedures. GEOFIRMA® are made from 100% virgin polyester polymer filaments that are highly durable and resistant to all naturally occurring soil acids and alkalis. Polyester geotextile are unaffected by bacteria and fungi. Properties of GEOFIRMA® geotextiles are typical values and correspond to average values derived from in house and NATA accredited independent laboratory testing.

If sustainable products are desired for non critical applications, please note that Geofirma Ecotextile can be offered as an alternative utilising recycled raw materials in their production. Please discuss with your Global Synthetics representative .



About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

Get in Touch

AUSTRALIA

Website

globalsynthetics.com.au

Email

info@globalsynthetics.com.au

New South Wales

(02) 9725 4321

North Qld

(04) 5921 1692

Victoria/Tasmania

(03) 9791 1772

Queensland

(07) 3865 7000

South Australia

(08) 8384 8894

Western Australia

(08) 9459 4300

NEW ZEALAND

Website

globalsynthetics.co.nz

Email

info@globalsynthetics.co.nz

Auckland

0800 510 120

Christchurch

0800 510 120



All information provided in this publication is correct to the best knowledge of the company and is given out in good faith. The information presented herein is intended only as a general guide to the use of such products and no liability is accepted by Global Synthetics Pty Ltd for any loss or damage however arising, which results either directly or indirectly from the use of such information. Global Synthetics Pty Ltd have a policy of continuous development so information and product specifications may change without notice.



Global Synthetics
LEADERS IN GEOSYNTHETICS