



Information sheet

Frequently asked questions:

BACKGROUND



Energlo coated and laminated fabrics are produced in Melbourne Australia by The Specialty Group, one of Australia's largest specialty textile mills who have been producing technical and industrial textiles and supplying these worldwide for almost 40 years.

The Specialty Group have supplied quality textiles to almost every major sportswear brand in the world including: The North Face, Nike, Quiksilver, Roxy, Spyder Active Sports, Salomon-Adidas, Vaude, Vans, Eddie Bauer, Canada Goose, Helly Hansen, NRS, Westbeach, Sun Ice, DC Shoes, Sprayway, Crewsaver, SOS, Insport/Vital, and many many more. Currently there are over 600 companies worldwide who have purchased and used energlo "glow-in-the-dark" coated fabric technology for use in Snowboard and Skiwear, Kid's rainwear, dog coats, bags and back packs, safety workwear, drysuits and life vests, child's jogging carriers, furniture and window fashions, toys, medical products, and the list goes on.

Energlo technology was developed in 2005 to provide increased visibility for Police and Emergency services clothing for better night time visibility. Since then millions of metres have been produced and sold worldwide into a wide range of product applications.

1) WHAT IS ENERGLO?

Energlo is a coated fabric (also available as a 3 ply laminate) with a proprietary photo-luminescent waterproof breathable liquid coating that is applied on the back of fabrics. Energlo is available made to order in 12 different fabric types ranging from light weight 50D poly microfibres to heavy back pack grades in 600D poly oxfords. The current range of energlo fabrics include:

- #1013 – 50D polyester microfibre
- #0994 – 75D polyester oxford
- #0964 – 70D Nylon Taslan
- #0971 – 150D Polyester twill
- #0819 – 150D Polyester oxford
- #0970 – 1x2mm nylon mini ripstop
- #1005 – 300D polyester oxford
- #1012 – 420D Nylon Oxford
- #1006 – 600D Polyester oxford

All materials are custom produced but sometimes small sampling rolls of 5-50m of each item (usually in white) available for prototype making and testing. Larger quantities or production quantities need to be ordered with leadtimes of 65-70 days ex Melbourne.

2) WHAT COLOURS OR PRINTS ARE AVAILABLE?

energlo coated fabrics are best used in “greige” colour (off white) technically termed as PFP – prepared for printing. As the photoluminescent coating is on the back of the fabric, the lighter or more translucent the fabric, the more light will enter the surface of the fabric and the better the glow will be. We can dye the fabric to any colour of your choice but the colours must be off-whites, pastels, or pale. This allows maximum light through to charge up the energlo coating and then highest glow levels.

If you would like the fabric printed, please provide us with your file via email and we will organise “strike-offs”. The minimum print run is usually 1,000m per design with a US\$600 fee for strike offs. Normally printing costs around US\$0.90/m-2.00/m depending on print coverage and number of print colours. Materials are printed prior to energlo coating. Printing is either done as rotary print or paper transfer print.

3) WHAT GLOW COLOURS ARE AVAILABLE?

energlo fabrics are available in a “Green” glow or “Aqua Blue” glow. Other glow colours are available however surcharges may apply.



4) WHAT IF I WANT MY OWN CHOICE OF FABRIC?

You can certainly specify or select any kind of fabric you would like with energlo coating on it. The best thing to do is send us a swatch of the fabric you would like with article number, construction and mill source & contact person clearly written on it. We will then contact this mill and organise to buy the colours and quantities you require. We would then bring this plain dyed fabric to our plant in Melbourne, Australia, coat the back with energlo and front with Durable Water Repellent treatment and ship the finished coated fabric to the garment / product manufacturer of your choice. Standard minimums for this are 1,000m

5) HOW DO I GET SAMPLES OR SWATCHES OF ENERGLO?

To acquire energlo fabrics, we sell energlo in minimum rolls of 5 metre lengths for prototyping and testing. These cost US\$23/m plus shipping. Shipping costs around US\$120 for the 5m roll via Fedex from Melbourne to most places in the World. You are welcome to use your own courier as well by providing us with your courier account number. We accept all major credit cards or TT / Wire transfers.

Funds are required before dispatch of goods. Normally small rolls are received within 3 days of receipt of an order and pre-payment.

We do not supply swatches on their own due to the number of requests we receive as well as because seeing energlo in larger pieces helps you realise the potential of the product rather than just seeing it as a small cutting. However, often our agents and distributors have samples that they can supply and we will be happy to provide their details to you after receiving your enquiry.

Typical prices for energlo coated fabrics are US\$23.00-\$27.00/m CIF Sea Asia for 1000m+ production quantities. This is based on 58” wide materials. Prices vary depending on fabric type and whether they are printed or not. Price breaks are available for 5000m+ orders and 10,000m+ orders

6) WHAT ARE THE PERFORMANCE PROPERTIES OF ENERGLO?

Energlo coated fabrics offer the following technical properties:

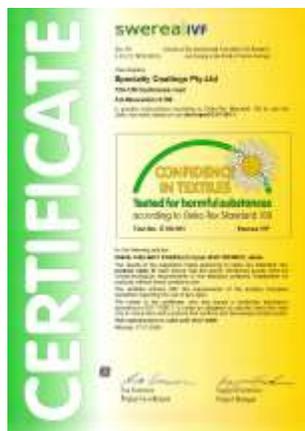
- 1) Waterproofness – 25,000mm+
- 2) Breathability – 6500-8000 grams per sqm per 24hours
- 3) Water resistance – 100% initial, 90% after 20 washes
- 4) Luminescence – Over 350 mcd/m² initial, over 100 mcd/m² after 10 minutes
- 5) Flame Resistance – EN533 Index 3 – (achieved when used in conjunction with Nomex - Article #1018S)

Higher levels of photo-luminescence “glow” are available at a US\$2.50/m surcharge in our energlo “enhanced” line - available on request.

Energlo fabrics are machine washable and dry cleanable with no loss to the glowing properties after even 50 washes. This is because the glow-in-the-dark properties are part of a permanent coating system and remain there well beyond the life of the product.



7) IS ENERGLO SAFE?



Energlo is made of a synthesised (made in a lab) photo-luminescent polymer chemistry that is completely safe and non-toxic. As energlo is encapsulated into the coating on the back of fabrics, it cannot come off to be ingested or affect skin.

Energlo technology comes with a MSDS safety sheet which confirms full safety compliance for both handling and use to humans.

Energlo technology received Oeko-tex class 3 certification in 2008.

8) HOW LONG WILL ENERGLO LAST?

a) Energlo “glow-in-the-dark” coated fabrics require about 10 minutes of either outdoors or indoor light to “charge”. Once “charged”, the coating and fabric will glow in complete darkness for over 3 hours. Depending on the time of year and level of light, energlo fabrics can glow all night long under the best case situations.

b) Energlo fabrics are guaranteed to have glowing properties for atleast 10 years. Like a solar cell, as long as energlo fabrics are provided with light, they will charge up and emit light back. These properties will continue well beyond the life of any product and are not affected by multiple washing or dry cleaning.



Multiple layers enhance the glowing effect.

9) WHY USE A GLOW IN THE DARK FABRIC?

There are many reasons why an energlo “glow in the dark” fabric should be used:

- a) Innovative – Glow in the dark fabrics are interesting, unique, and offer something unusual and attractive in the market place.
- b) Technology Driven – Energlo materials represent a leap in standard waterproof breathable coated fabrics that gives it a “technology” advantage to tell the market
- c) Performance – Energlo fabrics offer a high waterproof rating, high breathability for wearer comfort, and highest degree of repeatable glow out of any other product on the market.
- d) Marketable – “Glow-in-the-dark” products are easy to market and capture the interest of buyers.
- e) Appealing – Everyone is looking for new, novel, and point of difference products. Items made of energlo technology appeal to people looking for something unusual.
- f) Safety – Products made from energlo offer a safety story in that they are easily seen from a distance keeping people or pets safer than non-illuminated products

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