

Stabilisers

Novelties, backing selector, product range

MADEIRA

Backings, toppings & speciality materials for embroidery

NEW!

E-ZEE Green Cut made from recycled polyester



THE RIGHT STABILISER FOR THE BEST RESULT

Each fabric has its own specific characteristics, such as thickness, strength, stiffness and stretchability, all of which can affect the embroidery process and the finished design. The function of an embroidery stabiliser is to cancel out the fabric's more unfavourable properties. Stabilisers ensure distortion-free embroideries, sharp outlines and smooth fill areas. They also guarantee a seamless embroidery process and prevent wrinkling. We offer a carefully selected range of backings, films and speciality materials to help you find the best possible solution for your needs.

With this brochure you will receive:

- All new backings at a glance
- Our selector to find the ideal stabiliser for (almost) every fabric
- An overview of all Madeira embroidery backings
- A summary of all embroidery toppings (films) and specialty materials

Find further information at:

<https://madeira.com/stabilisers>



NEW TO OUR RANGE!



E-Zee Cut green



E-ZEE Green Cut is our new responsibly produced, cut-away backing made from **100% recycled polyester (rPES)**. The use of rPES from post-consumer PET bottles prevents new waste and reduces energy consumption, compared to conventional oil-based fibre. Available on rolls in two weight options and three widths, E-ZEE Green Cut is suitable for most standard embroidery hoop sizes and a great choice for the environmentally conscious embroiderer.



More information about **E-ZEE Green Cut** on page 8.



Without suitable stabilisation, the base material will pucker and wrinkle. For smooth and distortion-free embroidery results, you should always use a suitable backing.



THE SELECTOR:

All Madeira stabilisers at a glance

Do you want to know how to find the right stabiliser for the large number of various fabrics, each with different properties?

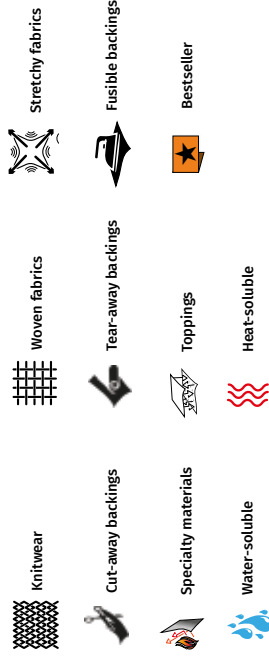
We will make your work easier with our newly developed backing overview. Find your ideal backing or topping based on the fabric, application, weight or purpose.

With the Madeira selector, this only takes a few minutes!





Backing selector



Cut-away backings

PRODUCT	MAKE-UP	COLOUR ART.NO.	MATERIAL	OEKO-TEX	GRS
E-ZEE Green Cut 45 45 g/m ²	100 m x 20 cm	○ 052GRC42W	● 052GRC42B	100% polyester [recycled]	✓
	100 m x 30 cm	○ 052GRC43W	● 052GRC43B	100% polyester [recycled]	✓
	100 m x 100 cm	○ 052GRC41W	● 052GRC41B	100% polyester [recycled]	✓
	100 m x 20 cm	○ 052GRC42W	● 052GRC42B	100% polyester [recycled]	✓
E-ZEE Green Cut 80 80 g/m ²	100 m x 30 cm	○ 052GRC43W	● 052GRC43B	100% polyester [recycled]	✓
	100 m x 100 cm	○ 052GRC41W	● 052GRC41B	100% polyester [recycled]	✓
	100 m x 20 cm	○ 052GRC42W	● 052GRC42B	100% polyester [recycled]	✓
	100 m x 30 cm	○ 052GRC43W	● 052GRC43B	100% polyester [recycled]	✓
CMX 40 g/m ²	100 m x 90 cm	○ 051CMX4W	● 051CMX4S	60% polyester, 40% wood pulp	✓
CMX 50 g/m ²	100 m x 90 cm	○ 051CMX51	● 051CMX50	60% polyester, 20% wood pulp, 20% viscose	✓
CMX 65 g/m ²	100 m x 90 cm	○ 051CMX6W	● 051CMX6S	60% polyester, 40% wood pulp	✓
CMX 80 g/m ²	100 m x 90 cm	○ 051CMX8W	● 051CMX8S	60% polyester, 40% wood pulp	✓
WEBLON 34 g/m ²	20 cm x 20 cm	★ 051WL20S	● 051WL20S	100% polyamide	✓
	45 m x 50 cm	★ 051WL50S	● 051WL50S	100% polyamide	✓
	45 m x 75 cm	★ 051WL75S	● 051WL75S	100% polyamide	✓
	200 m x 94 cm	★ 051WL92W	● 051WL92S	100% polyamide	✓
WEBLON 44 g/m ²	20 cm x 20 cm	○ 051WL20W	● 051WL20W	100% polyamide	✓
	45 m x 50 cm	○ 051WL50W	● 051WL50W	100% polyamide	✓
	45 m x 75 cm	○ 051WL75W	● 051WL75W	100% polyamide	✓
	20 cm x 20 cm	○ 051WP52W	● 051WP52S	100% polyamide	✓
WEBLON + 55 g/m ²	38 cm x 38 cm	○ 051WP54W	● 051WP54S	100% polyamide	✓
	100 m x 90 cm	○ 051WP59W	● 051WP59S	100% polyamide	✓
	100 m x 90 cm	○ 051PS89W	● 051PS89S	100% polyester	✓
	100 m x 90 cm	○ 051PH89W	● 051PH89S	100% polyester	✓
SMX 80 g/m ²	100 m x 90 cm	○ 051SMX8W	● 051SMX8S	55% polyester, 30% viscose, 15% vinylal	✓
WEB 50 g/m ²	23 cm x 23 cm	○ 051WB52W	● 051WB52S	100% polypropylene	✓
	38 cm x 38 cm	○ 051WB54W	● 051WB54S	100% polypropylene	✓
	200 m x 90 cm	○ 051WB59W	● 051WB59S	100% polypropylene	✓

Tear-away backings

CMX 35 g/m ²	200 m x 90 cm	○ 051CMX3W	● 051CMX3S	80% wood pulp, 20% polyester	✓			●					
CMX 50 g/m ²	200 m x 90 cm	○ 051CMX5W	● 051CMX5S	80% wood pulp, 20% polyester	✓			●					
CMX 75 g/m ²	100 m x 90 cm	○ 051CMX7W	● 051CMX7S	70% wood pulp, 30% viscose	✓						●		
CAPS 76 g/m ²	Pre-Cut 250 pc./pack	○ 051QC71W		100% polyester	✓							●	
		○ 051RC71W		100% polyester	✓							●	
SQUARES 40 g/m ²	Pre-Cut 250 pc./pack	○ 051QV42W	● 051QV42S	100% viscose								●	2 Lagen
		○ 051SMX3W		55% polyester, 30% viscose, 15% vinylal	✓			●					
SMX 35 g/m ²	200 m x 90 cm	○ 051SMX3W		55% polyester, 30% viscose, 15% vinylal	✓			●					
SMX 42 g/m ²	200 m x 90 cm	○ 051SMX4W		55% polyester, 30% viscose, 15% vinylal	✓			●					
SMX 50 g/m ²	200 m x 90 cm	○ 051SMX5W		55% polyester, 30% viscose, 15% vinylal	✓					●			
COTTON SOFT 50 g/m ²	200 m x 90 cm	○ 051CS59W	● 051CS59S	100% cotton [recycled]				●		●			
	SWPACK 6 x 50 m x 30 cm	○ 051CS53W	● 051CS53S	100% cotton [recycled]				●		●			
COTTON SOFT 60 g/m ²	200 m x 90 cm	○ 051CS69W	● 051CS69S	100% cotton [recycled]								●	
COTTON SOFT 80 g/m ²	200 m x 90 cm	○ 051CS89W	● 051CS89S	100% cotton [recycled]								●	

Fusible backings

CMX 48 g/m ²	200 m x 90 cm	○ 051CMF4W	● 051CMF4S	80% wood pulp, 20% polyester [glue: LDPE]	✓			●					
WEBLON + 70 g/m ²	Pre-Cut 250 pc./pack	○ 051WF72W	● 051WF72S	100% polyamide [glue: LDPE]	✓		●			●			
		○ 051WF74W	● 051WF74S	100% polyamide [glue: LDPE]	✓		●			●			
		○ 051SMF7W		55% polyester, 30% viscose, 15% vinylal [glue: LDPE]	✓					●		Abzeichnen	

Toppings

AVALON, 20 µ	100 m x 20 cm	○ 035AVA20		100% vinylal					🔥
	100 m x 50 cm	○ 035AVA50		100% vinylal					
	100 m x 100 cm	○ 035AVA		100% vinylal					
AVALON STRONG, 35 µ	100 m x 20 cm	○ 035AVS21		100% vinylal	✓				
	100 m x 50 cm	○ 035AVS51		100% vinylal	✓				🔥
	100 m x 100 cm	○ 035AVS11		100% vinylal	✓				
	50 m x 50 cm	○ 035AVU55		100% vinylal	✓				🔥
AVALON ULTRA, 90 µ	50 m x 100 cm	○ 035AVU15		100% vinylal	✓				

Speciality materials

FIRE FIGHTER 55 g/m ²	50 m x 100 cm	● 051FF515		100% aramid	✓				🧑🏻‍🚒
	50 m x 20 cm	● 051FF525		100% aramid	✓				🧑🏻‍🚒
STICK ON 50 g/m ²	50 m x 75 cm	○ 051SV75W	● 051SV75S	100% viscose [glue: acrylic glue]					↩️
	100 m x 75 cm	○ 051SV71W	● 051SV71S	100% viscose [glue: acrylic glue]					
STICK ON LIGHT 50 g/m ²	50 m x 75 cm	○ 051SL75W		100% viscose [glue: acrylic glue]					
	100 m x 75 cm	○ 051SL71W		100% viscose [glue: acrylic glue]					
AVALON PLUS, 300 µ	100 m x 20 cm	○ 035PLU52		100% vinylal	✓				🧑🏻‍🚒
	100 m x 50 cm	○ 035PLU55		100% vinylal	✓				
	100 m x 100 cm	○ 035PLU51		100% vinylal	✓				
	100 m x 50 cm	○ 035AS513		100% elastolefin	✓				🔥
MadeirAS, 30 µ	200 m x 100 cm	○ 035AS123		100% elastolefin	✓				🔥
MadeirAS, 100 µ	100 m x 50 cm	○ 035AS518		100% polyolefin	✓				🔥
	100 m x 100 cm	○ 035AS11B		100% polyolefin	✓				🔥
BODY BUILDER, 3 mm	30 cm x 40 cm	○ 035B010W	● 035B010B	100% ethylene vinyl acetate	✓				
BODY BUILDER HARD, 3 mm	30 cm x 40 cm	○ 035BH10W	● 035BH10B	100% ethylene vinyl acetate	✓				
HEAT SEAL 100 g/m ²	50 m x 20 cm	○ 035H1125		100% polyamide					
	50 m x 50 cm	○ 035H1155		100% polyamide					
COMFORT WEAR 40 g/m ²	100 m x 50 cm	○ 051CW50W	● 051CW50S	100% polyester	✓				
WATER SEAL 120g/m ²	100 m x 45,5 cm	○ 035ST104		100% polyurethane					Full adhesion after 48 hours.



- We recommend using only one layer of backing

- Adhesive backings: To achieve optimal results, always test before production, taking the care instructions of the fabric into consideration.

- STICK ON & STICK ON LIGHT: for textiles or precuts that can or should not be hooped (corduroy fabrics, velvet, suede fabrics ...).



Fusible backings



Ironing temperature



150 - 160 °C



Heat press



150 - 160 °C

4-6 sec.

0-2 bar



Pressure: For **CMX** and **SMX**, always use light pressure to ensure that no adhesive remains on the fabric when the fusible backing is removed.

Fabrics and fabric finishes affect the adhesive performance of fusible backings. For this reason, we recommend that you always carry out a test before starting production. By changing the variables of temperature, pressure, time and steam, the fusing result can be controlled. Care instructions for the fabric must be followed



STABILISING THE EMBROIDERY FABRIC FOR OUTSTANDING QUALITY

Most fabrics and embroideries benefit greatly from the use of the right embroidery stabiliser. This can be a backing and/or a topping. Most importantly, it should be perfectly adapted to the fabric and the kind of embroidery you want to do. That's why we offer a comprehensive choice of embroidery backings, toppings and special application materials and support you in finding the solution best suited to your needs.



E-ZEE GREEN EMBROIDERY BACKING

When it comes to creating a responsibly produced embroidery, the backing is an important factor to consider. Our sustainable E-ZEE Green Cut backing is the latest addition to the Madeira Green product line. Made from resource-saving rPES (100% recycled polyester), it brings you one step closer to creating a fully eco-friendly embroidery.

Embroidery backings

For soft and distortion-free embroidery results



Cut-away backings

Permanent stabilisation for delicate embroidery and fabrics.

E-ZEE Green Cut

45g / 80g: 100% polyester [recycled]



Make-ups:

- 100 m x 20 cm
- 100 m x 30 cm
- 100 m x 100 cm



certified by ECOCERT Greenlife,
Licence Number 240979,
learn more at TextileExchange.org/Standards



STANDARD
100
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Hohenstein (IT)

- For medium to heavy woven or knit fabrics like softshell, business wear, work overalls, denim, bags, sweaters or heavy knit cardigans
- E-ZEE Green Cut contains 100% GRS certified recycled polyester, certified by ECOCERT Greenlife Licence Number 240979
- Reduce production set-up time with pre-cut narrow rolls

CMX

40g / 65g / 80g: 60% polyester, 40% wood pulp
50g: 60% polyester, 20% wood pulp, 20% viscose



Make-ups:

- 100 m x 90 cm



STANDARD
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Hohenstein (IT)

- For light, medium and heavy woven materials, such as shirts, silk, denim or children's clothing
- Available on rolls
- High-quality premium backings with viscose
- OEKO-TEX certified



WEBLON

34g / 44g: 100% polyamide



Make-ups:

- 20 cm x 20 cm 
- 45 m x 50 cm 
- 200 m x 94 cm 

- For fine stretchy fabrics & knitwear/lightweight fabrics
- Available on rolls or as pre-cuts
- „Invisible“ soft and heat-resistant backing made of 100% polyamide



WEBLON+

55g: 100% polyamide



Make-ups:

- 20 cm x 20 cm 
- 38 cm x 38 cm 
- 100 m x 90 cm 

- For medium to heavy elastic/stretchy fabrics/ knitwear, medium-weight (elastic) woven fabrics such as sweatshirts, functional wear & fleece
- Available on rolls for conventional hooping or as pre-cuts
- Soft, stable and „invisible“ premium backing for special requirements.
- Heat resistant up to 260 °C



PES SOFT

40g / 80g: 100% polyester



Make-ups:

- 200 m x 90 cm 
- 100 m x 90 cm 

- For fine elastic/stretchy fabrics & knitwear, as well as light medium/ elastic woven fabrics
- Available on rolls
- The soft polyester alternative for all 40 g and 80 g backing variations



PES soft 40g/m² will be discontinued.
Available while stocks last.

Please check this alternative: E-ZEE Green Cut 45

PES HARD

80g: 100% polyester



Make-ups:

- 100 m x 90 cm 

- For heavy woven materials and caps
- Available in rolls
- Heavier polyester backing, also suitable for cap embroidery



SMX

80g: 55% polyester, 30% viscose, 15% vinylal



Make-ups:

- 100 m x 90 cm 

- Standard cut-away backing for your everyday work
- Can be used for stable and heavy fabrics, as well as for caps
- Great for workwear and denim fabrics



WEB

50g: 100% polypropylene



Make-ups:

- 23 cm x 23 cm 
- 38 cm x 38 cm 
- 200 m x 90 cm 

- For fine elastic/stretchy fabrics and knitwear
- Available on rolls or as pre-cuts
- Polypropylene backing for easy and uncomplicated embroidering
- Maximum ironing temperature 110 °C





Tear-away backings

For fast, multidirectional and residue-free tearing off.

CMX

35g / 50g: 80% wood pulp, 20% polyester
75g: 70% wood pulp, 30% polyester



Make-ups:

200 m x 90 cm 
100 m x 90 cm 

- For light, medium and heavy woven materials, such as shirts, silk, denim or children's clothing
- Available on rolls
- Regular, short-fibre backing structure with viscose component
- OEKO-TEX certified



SMX

35g / 42g / 50g: 55% polyester, 30% viscose, 15% vinylal



Make-ups:

200 m x 90 cm 

- For light, medium and heavy woven fabrics, as well as caps
- Available on rolls
- Classic multifunctional backing with viscose



CAPS (SQUARES & ROLLS)

76g: 100% polyester



Make-ups:

10 cm x 30 cm 
100 m x 10 cm 

- Specifically for embroidery on caps
- Available on rolls or as pre-cuts
- Polyester backings for best results on caps



SQUARES

40g: 100% viscose



Make-ups:

20 cm x 20 cm 

- For light woven fabrics, two-ply for caps
- Available as pre-cuts



EASY TEAR

50g: 100% viscose

Easy Tear will be discontinued.
Available while stocks last.
Please check this alternative:
CMX 50 (tear-away)

- For light & medium-weight fabrics
- Available on rolls or as pre-cuts
- Easy to remove & especially suitable for small embroideries



COTTON SOFT

50g / 60g / 80g: 100% cotton [recycled]



Make-ups:

200 m x 90 cm 
100 m x 90 cm 
6 x 50 m x 30 cm 

- For light, medium and heavy woven fabrics, as well as caps
- Available on rolls and pre-cuts (COTTON SOFT SIXPACKS)
- Reliable and inexpensive cotton backing





Fusible backings

Fusible backings perfectly match with any fabric you can't frame without distortion. The bonding side is activated when ironed and allows you to stabilise the fabric before framing. Available as tear-away and cut-away backings in different weights and qualities.

CMX

48g: 80% wood pulp, 20% polyester
[glue: LDPE (low-density polyethylene)]



- For light and elastic woven garments: light business shirts, blouses & textiles made of silk or acetate
- Available on rolls
- Especially suitable for materials that cannot be hooped or embroidered without puckering
- To be ironed on at 130 °C

Make-ups:
200 m x 90 cm 



WEBLON+

70g: 100% polyamide
[glue: LDPE (low-density polyethylene)]



- For medium to heavy elastic/stretchy fabrics/knitwear, medium-weight (elastic) woven fabrics
- Available on rolls for conventional hooping or as pre-cuts
- Soft, stable and „invisible“ premium backing that stabilises permanently.
- Heat resistant up to 260 °C

Make-ups:
20 cm x 20 cm 
38 cm x 38 cm 



SMX

70g: 55% polyester, 30% viscose, 15% vinylal
[glue: LDPE (low-density polyethylene)]



- For medium-weight and elastic woven garments, functional workwear and badges
- Available on rolls
- Especially suitable for materials that cannot be hooped or embroidered without puckering
- To be ironed on from 150 °C to max. 200 °C

Make-ups:
100 m x 900 cm 



TOPPINGS AND SPECIALITY MATERIALS

Our range of toppings and speciality materials for embroidery includes water-soluble films, 3D foams, soft inlays and adhesive films to help you realise your designs on a variety of challenging materials and garments.



Toppings

 keep your embroidery in shape.

Films not only prevent individual design elements from sinking into knitwear or terry, but also prevent the base material from showing through. They can be easily removed with water or heat, leaving no residue.

AVALON

20 microns: 100% vinylal



Make-ups:

100 m x 20 cm
100 m x 50 cm
100 m x 100 cm

- Improves embroidery on knits and terry
- Prevents the thread from sinking into the fabric
- For a smoother, firmer surface during embroidery



AVALON STRONG

35 microns: 100% vinylal



Make-ups:

100 m x 20 cm
100 m x 50 cm
100 m x 100 cm

- Special film for lacework
- For very textured surfaces such as corduroy and where Avalon 20 mic is too thin
- Can be used in several layers if required



AVALON ULTRA

90 microns: 100% vinylal



Make-ups:

50 m x 50 cm
50 m x 100 cm

- Watersoluble film for lace embroidery and temperature sensitiv materials
- Additional support for filigree embroidery





Speciality materials

From fire-resistant and adhesive backings to special application films, 3D foam and inlays. Discover our selection of specialty materials for embroidery.

E-ZEE FIRE FIGHTER

55g: 100% aramid



- Heat-resistant aramide-melamine resin cut-away backing for flame resistant protective clothing and workwear
- Available in two make-ups in the material's natural yellow colour
- Breathable, tear proof and dimensionally stable

Make-ups:

- 50 m x 100 cm
- 50 m x 20 cm



STICK ON

50g: 100% viscose [glue: acrylic glue]



- For medium and heavy elastic/stretchy fabrics and knitwear, as well as medium-weight woven fabrics
- Available on rolls
- One-sided adhesive backing in black & white

Make-ups:

- 50 m x 75 cm
- 100 m x 75 cm



STICK ON LIGHT

50g: 100% viscose [glue: acrylic glue]



- For medium and heavy elastic/stretchy fabrics and knitwear, as well as medium heavy textiles
- Available on rolls
- One-sided adhesive backing in white

Make-ups:

- 50 m x 75 cm
- 100 m x 75 cm



AVALON PLUS

300 microns: 100% vinylal



- Thick foil backing with non woven/textile-like structure
- Non-slip
- Ideal as fully removable backing substitute for clean back sides of embroideries

Make-ups:

- 100 m x 20 cm
- 100 m x 50 cm
- 100 m x 100 m



MadeirAS 30

30 microns: 100% elastolefin



- For fine and elastic base materials
- Alternative to using backings

Make-ups:

- 100 m x 50 cm
- 200 m x 100 cm



MadeirAS films can be removed with a heat press or an iron. Maximum ironing temperature 110 °C.

MadeirAS 100

100 microns: 100% elastolefin



Make-ups:
100 m x 50 cm
100 m x 100 cm

- For patches and badges
- Double-layered for clean embroidery edges

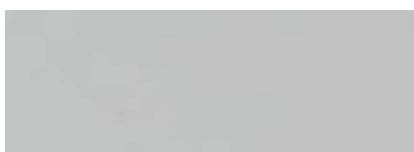


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Hohenstein HTTI



Soft 3D embroidery foam – BODYBUILDER SOFT

3mm: 100% ethylene vinyl acetate



Make-ups:
30 cm x 40 cm 

- For extra 3D volume
- Can be used in multiple layers
- For effects on caps, bags, outdoor wear and other garments
- For soft corners and clean embroidery edges



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Hohenstein HTTI

Hard 3D embroidery foam – BODYBUILDER HARD

3mm: 100% ethylene vinyl acetate



Make-ups:
30 cm x 40 cm 

- For 3D embroidery with sharp-edged contours and reliefs
- Can be used in multiple layers
- For special effects on caps
- Can be partially or completely overstitched



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Hohenstein HTTI

Adhesive film – E-ZEE HEAT SEAL

Fusible version, 100g: 100% polyamide



Make-ups:
50 m x 20 cm 
50 m x 50 cm 

- Heat-activated adhesive foil for attaching badges to garments.
- Washable at 40°C



Fusible embroidery inlay – E-ZEE COMFORT WEAR

40g: 100% polyester



Make-ups:
100 m x 50 cm 

- Jersey inlay to cover the back of the embroidery
- High next-to-skin comfort thanks to its bi-elastic properties
- Protects the skin



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For sealing stitch holes

E-ZEE WATER SEAL

120g: 100% polyurethane



Make-ups:
45,5cm x 100m

- Specially designed to seal stitch holes in rainwear
- For light to medium weight vinyl or polyurethane coated fabrics
- Full adhesion is achieved after 48 hours







Madeira – Your partner for high quality embroidery threads, stabilisers and accessories for the production of industrial machine embroidery. Whether you are in a specific industry or want to create intelligent textiles with conductive threads: We can help you with everything, from individual advice to expertise and troubleshooting.

Get in touch with us!

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