

# Stabilisers

Novelties, selector, range summary

# MADEIRA

## Backings, toppings & speciality materials for embroidery



# FIND YOUR IDEAL STABILISER!

MADEIRA overview:  
embroidery backings, toppings & speciality materials

Whether you prefer to cut or tear your backing, realise embroidery on functional materials or create cap embroidery, thanks to our extensive selection, you will always find the right stabiliser 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 (foils) and speciality materials.

Find further information at:  
[www.madeira.com/stabilisers](http://www.madeira.com/stabilisers)





# Novelties



New products for even more performance

## Fusible, no-show and viscose backings



☆☆ cut-away backing,  
fusible 70 g - WEBLON+

- "Invisible" polyamide backing for materials that cannot be hooped or embroidered without puckering
- Can be fused before or after embroidery for flat surfaces and steady bonding



☆☆ cut-away backing  
55 g - WEBLON+

- Soft, stable and "invisible" premium backing for special requirements.
- Remains in the embroidery and stabilises the design durably against deformation
- Heat resistant up to 220 °C



☆☆ fusible tear-away backing,  
70 g - SMX

- Especially suitable for materials that cannot be hooped or embroidered without puckering and for badge production



☆☆ fusible tear-away backing,  
48 g - CMX

- Especially suitable for fine, delicate and light woven fabrics that cannot be hooped or embroidered without puckering



☆☆ tear-away backing,  
50 g - EASY TEAR

- Easy to remove & especially suitable for small embroidery



# THE SELECTOR:

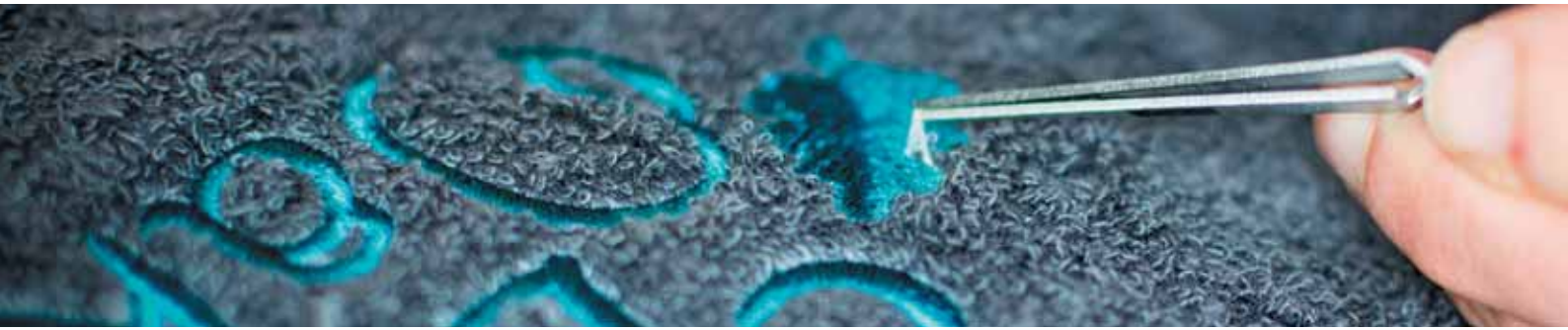
All Madeira stabilisers at a glance

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 overview. Find your ideal backing or topping based on the fabric, application, weight or purpose.

















With the Madeira selector, you only need a few minutes!





## Signs and symbols

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	Our Bestseller		Article available in rolls		Article available as pre-cuts
	Cut-away backing		Tear-away backing		Fusible backing
	Toppings		Speciality materials		
	Heat soluble		Water soluble		
	Knitwear		Woven		Stretchy
	Premium		Standard		Basic

## General recommendations

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We recommend using the selected backing in one layer.  
The material and qualities of the base fabric determine the quality of the adhesive results.

We therefore recommend running gluing and temperature tests before production.

By changing the pressure, temperature, steam and time, the adhesive results can be controlled.

Please check the care instructions of the base material before use.  
When using fusible backings (CMX + SMX), always work with light pressure.  
This can prevent adhesive residues from remaining on the base material after tearing off.

## BACKING SELECTOR










 Premium

 Standard

 Basic






### Cut-away backings

PRODUCT	MAKE UP	COLOUR	Art. No.	MATERIAL	OEKO-TEX
CMX 40 g/m <sup>2</sup>	100 m x 90 cm	○	051CMX4W ● 051CMX4S	40% cellulose, 60% PES	✓
CMX 50 g/m <sup>2</sup>	100 m x 90 cm	○	051CMX51 ● 051CMX50	20% cellulose, 60% PES, 20% viscose	✓
CMX 65 g/m <sup>2</sup>	100 m x 90 cm	○	051CMX6W ● 051CMX6S	40% cellulose, 60% PES	✓
CMX 80 g/m <sup>2</sup>	100 m x 90 cm	○	051CMX8W ● 051CMX8S	40% cellulose, 60% PES	✓
WEBLON 34 g/m <sup>2</sup>	 20 cm x 20 cm		● 051WL20S	100 % polyamide	✓
	 45 m x 50 cm		● 051WL50S	100 % polyamide	✓
	 45 m x 75 cm		● 051WL75S	100 % polyamide	✓
	 200 m x 94 cm	○	051WL92W ● 051WL92S	100 % polyamide	✓
WEBLON 44 g/m <sup>2</sup>	 20 cm x 20 cm	○	051WL20W	100 % polyamide	✓
	45 m x 50 cm	○	051WL50W	100 % polyamide	✓
	45 m x 75 cm	○	051WL75W	100 % polyamide	✓
WEBLON + 55 g/m <sup>2</sup>	 20 cm x 20 cm	○	051WP52W ● 051WP52S	100 % polyamide	✓
	 38 cm x 38 cm	○	051WP54W ● 051WP54S	100 % polyamide	✓
	 100 m x 90 cm	○	051WP59W ● 051WP59S	100 % polyamide	✓
PES SOFT 40 g/m <sup>2</sup>	200 m x 90 cm	○	051PS49W	100 % PES	✓
PES SOFT 80 g/m <sup>2</sup>	100 m x 90 cm	○	051PS89W ● 051PS89S	100 % PES	✓
PES Hard 80 g/m <sup>2</sup>	100 m x 90 cm	○	051PH89W ● 051PH89S	100 % PES	✓
SMX 80 g/m <sup>2</sup>	100 m x 90 cm	○	051SMX8W	55 % PES, 15 % PVA, 30 % viscose	✓
WEB 50 g/m <sup>2</sup>	 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 <sup>2</sup>	200 m x 90 cm	○	051CMX3W ● 051CMX3S	80 % cellulose, 20 % viscose	✓
CMX 50 g/m <sup>2</sup>	 200 m x 90 cm	○	051CMX5W ● 051CMX5S	80 % cellulose, 20 % viscose	✓
CMX 75 g/m <sup>2</sup>	 100 m x 90 cm	○	051CMX7W ● 051CMX7S	70 % cellulose, 30 % viscose	✓
EASY TEAR 50 g/m <sup>2</sup>	100 m x 90 cm	○	051ET59W	100 % viscose	
CAPS 76 g/m <sup>2</sup>	 10 cm x 30 cm	○	051QC71W	100 % PES	✓
	100 m x 10 cm	○	051RC71W	100 % PES	✓





# Tear-away backings

PRODUCT	MAKE UP	COLOUR   Art. No.	MATERIAL	OEKO-TEX
<b>SQUARES 40 g/m<sup>2</sup></b> <small>pre-cuts 250 pc./pack</small>	20 cm x 20 cm	○ 051QV42W ● 051QV42S	100 % viscose	
<b>SMX 35 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051SMX3W	55 % PES, 15 % PVA, 30 % viscose	✓
<b>SMX 42 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051SMX4W	55 % PES, 15 % PVA, 30 % viscose	✓
<b>SMX 50 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051SMX5W	55 % PES, 15 % PVA, 30 % viscose	✓
<b>COTTON SOFT 50 g/m<sup>2</sup></b> <small>SIXPACK</small>	200 m x 90 cm	○ 051CS59W ● 051CS59S	100 % recycled cotton	
	6 x 50 m x 30 cm	○ 051CS53W ● 051CS53S	100 % recycled cotton	
<b>COTTON SOFT 60 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051CS69W ● 051CS69S	100 % recycled cotton	
<b>COTTON SOFT 80 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051CS89W ● 051CS89S	100 % recycled cotton	



# Fusible backings

<b>CMX 48 g/m<sup>2</sup></b>	200 m x 90 cm	○ 051CMF4W ● 051CMF4S	80 % cellulose, 20 % PES (glue: LDPE)	✓
<b>WEBLON + 70 g/m<sup>2</sup></b> <small>pre-cuts 250 pc./pack</small>	20 cm x 20 cm	○ 051WF72W ● 051WF72S	100 % polyamide (glue: LDPE)	✓
	38 cm x 38 cm	○ 051WF74W ● 051WF74S	100 % polyamide (glue: LDPE)	✓
<b>SMX 70 g/m<sup>2</sup></b>	100 m x 90 cm	○ 051SMF7W	55 % PES, 15 % PVA, 30 % viscose (glue: LDPE)	✓



# Toppings

<b>AVALON, 20 μ</b>	100 m x 20 cm	○ 035AVA20	100 % polyvinyl alcohol	
	100 m x 50 cm	○ 035AVA50	100 % polyvinyl alcohol	
	100 m x 100 cm	○ 035AVA	100 % polyvinyl alcohol	
<b>AVALON STRONG, 35 μ</b>	100 m x 20 cm	○ 035AVS21	100 % polyvinyl alcohol	
	100 m x 50 cm	○ 035AVS51	100 % polyvinyl alcohol	
	100 m x 100 cm	○ 035AVS11	100 % polyvinyl alcohol	
<b>MadeirAS, 30 μ</b>	100 m x 50 cm	○ 035AS513	<b>100 % polyolefin</b>	
	200 m x 100 cm	○ 035AS123	<b>100 % polyolefin</b>	



# Speciality Materials

<b>FIRE FIGHTER 55 g/m<sup>2</sup></b> <small>Cut-away</small>	50 m x 100 cm	○ 051FF515	50 % aramide, 50 % melanin resin	✓ PC II
	50 m x 20 cm	○ 051FF525	100 % aramide	✓ PC I
<b>STICK ON 50 g/m<sup>2</sup></b> <small>Tear-away / one side adhesive</small>	50 m x 75 cm	○ 051SV75W ● 051SV75S	100 % viscose, glue	
	100 m x 75 cm	○ 051SV57W ● 051SV71S	100 % viscose, glue	
<b>STICK ON LIGHT 50 g/m<sup>2</sup></b> <small>Tear-away / one side adhesive</small>	50 m x 75 cm	○ 051SL75W	100 % viscose, glue	
	100 m x 75 cm	○ 051SL71W	100 % viscose, glue	
<b>AVALON PLUS, 300 μ</b> <small>Topping / water soluble</small>	100 m x 20 cm	○ 035PLUS2	100 % polyvinyl alcohol	✓
	100 m x 50 cm	○ 035PLUS5	100 % polyvinyl alcohol	✓
	100 m x 100 cm	○ 035PLUS1	100 % polyvinyl alcohol	✓
<b>AVALON ULTRA, 90 μ</b> <small>Topping / water soluble</small>	50 m x 50 cm	○ 035AVU55	100 % polyvinyl alcohol	
	50 m x 100 cm	○ 035AVU15	100 % polyvinyl alcohol	
<b>MadeirAS, 100 μ</b> <small>Topping / heat soluble</small>	100 m x 50 cm	○ 035AS51B	<b>100 % polyolefin</b>	
	100 m x 100 cm	○ 035AS11B	<b>100 % polyolefin</b>	
<b>BODY BUILDER, 3 mm</b> <small>10 pc.</small>	30 cm x 40 cm	○ 035B010W ● 035B010B	100 % ethylene vinyl acetate	
<b>BODY BUILDER HARD, 3 mm</b>	30 cm x 40 cm	○ 035BH10W ● 035BH10B	100 % ethylene vinyl acetate	
<b>HEAT SEAL 100 g/m<sup>2</sup></b>	50 m x 20 cm	○ 035HI125	100 % copolyamide	
	50 m x 50 cm	○ 035HI155	100 % copolyamide	
<b>COMFORT WEAR 40 g/m<sup>2</sup></b>	100 m x 50 cm	○ 051CW50W ● 051CW50S	100 % polyester	✓







fine, lycra, stretchy fabrics, knitwear	medium-heavy, lycra, stretchy fabrics, knitwear	light woven fabrics	medium-heavy woven fabrics	medium-heavy, lycra woven fabrics	heavy woven fabrics	caps
		★★				★★ 2 layers
		★★				
		★	★★			
		★	★			
					★	
					★	★
		★★	★★			
★★				★★		
★★				★★		
				★★	★★	badges



- Preferably use only one layer of backing fabric
- Gluing: To achieve optimum results always test before production, taking into consideration the care instructions of the fabric
- STICK ON & STICK ON LIGHT: for textiles or precuts that should not be framed. (corduroy fabrics, velvet, suede fabrics ...).

## Fusible backings

 Ironing temperature	 Heat press temperature & pressure
150 - 160 °C 	150 - 160 °C  4-6 sec. 0-2 bar
<p><b>i</b> Pressure: When using CMX &amp; SMX fusible, always use low pressure to avoid glue dot marks. Fabrics and their specialised finishes can vary, therefore testing is always advisable.</p>	



Find more useful information and How To's @:  
[madeira.com/best-practice](https://madeira.com/best-practice)

# Embroidery backings

For soft and even embroidery results



## Cut-away backings

Permanent stabilisation for delicate embroidery and fabrics.



CMX  
40 g/ 50 g / 65 g/ 80 g



presentations:  
100 m x 90 cm

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

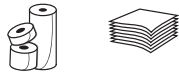


WEBLON  
34 g/ 44 g



presentations:  
20 cm x 20 cm   
45 m x 50 cm   
200 m x 94 cm

- For fine elastic/stretch fabrics & knitwear/lightweight fabrics
- Available in rolls or pre-cuts
- "Invisible" soft and heat-resistant backing made of 100% polyamide

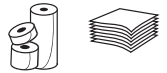


WEBLON+  
55 g



presentations:  
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 in rolls for classic hooping or as pre-cuts
- Soft, stable and "invisible" premium backing for special requirements.
- Heat resistant up to 260 °C



PES SOFT  
40 g/ 80 g



presentations:  
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 in rolls
- The soft polyester alternative for all 40 g and 80 g backing variations



PES HARD  
80 g



presentations:  
100 m x 90 cm

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



SMX  
80 g



presentations:  
100 m x 90 cm

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



WEB  
50 g



presentations:  
23 cm x 23 cm   
38 cm x 38 cm   
200 m x 90 cm

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





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

## Tear-away backings



For fast, multidirectional and residue-free tearing off.

### CMX

35 g/ 50 g/ 75 g



presentations:

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 in rolls
- Regular, short-fibre backing structure with viscose component
- OEKO-TEX® certified



### SMX

35 g/ 42 g/ 50 g



presentations:

200 m x 90 cm 

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





### CAPS (SQUARES & ROLLS)

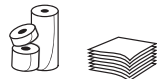
76 g



presentations:

10 cm x 30 cm   
100 m x 10 cm 

- Especially for cap embroidery
- Available in rolls or pre-cuts
- Polyester backings for best results on caps



### SQUARES

40 g



presentations:

20 cm x 20 cm 

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




### EASY TEAR

50 g



presentations:

100 m x 90 cm 

- For light & medium-weight fabrics
- Available in rolls for classic hooping
- Easy to remove & especially suitable for small embroidery






### COTTON SOFT

50 g/ 60 g/ 80 g



presentations:

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 in rolls and pre-cuts (*COTTON SOFT SIXPACKS*)
- Reliable and inexpensive cotton backings.






## 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 48 g





presentations:  
200 m x 90 cm 

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



### WEBLON+ 70 g




presentations:  
20 cm x 20 cm   
38 cm x 38 cm 

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



### SMX 70 g



presentations:  
100 m x 90 cm 

- For medium-weight and elastic woven goods; functional workwear & emblems
- Available in rolls
- Especially suitable for materials that cannot be clamped or embroidered without puckering
- Iron-on from 150 °C to max. 200 °C





## Toppings

... keep your embroidery in shape.

Toppings not only prevent individual design elements from sinking into knitwear or terrycloth, but they also avoid the base material showing through. Furthermore, they can be removed easily and without residue with water or heat.

### AVALON

20 microns



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

- To smoothen the surface of uneven fabrics such as piqué or wool
- Ultra thin and easy to remove



### AVALON STRONG

35 microns



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

- A thicker version of Avalon 20 for more bulky fabrics
- Can also be double-layered and used for badges



### MadeirAS 30

30 microns



presentations  
100 m x 50 cm  
200 m x 100 cm

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



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

# Speciality materials

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

## ★☆☆ E-ZEE FIRE FIGHTER

55 g



- Heat-resistant aramid-melamine resin cut-away backing for flame-resistant protection and workwear
- In two presentations in the material's natural yellow colour
- Breathable, tear proof and dimensionally stable

presentations:

- 50 m x 100 cm ●
- 50 m x 20 cm ●



only for 50 m x 20 cm version



## ★★ STICK ON

50 g



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

presentations:

- 50 m x 75 cm ●●
- 100 m x 75 cm ●●



## ★★ STICK ON LIGHT

50 g



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

presentations:

- 50 m x 75 cm ○
- 100 m x 75 cm ○



## AVALON PLUS

300 microns



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

presentations:

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



## AVALON ULTRA

90 microns



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

presentations:

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



## MadeirAS 100

100 microns



presentations:  
100 m x 50 cm  
100 m x 100 cm


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



## Soft 3D embroidery foam – BODYBUILDER SOFT

3 mm



presentations:  
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



## Hard 3D embroidery foam – BODYBUILDER HARD

3 mm



presentations:  
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



## Adhesive film – E-ZEE HEAT SEAL

Fusible version, 100 g



presentations  
50 m x 20 cm   
50 m x 50 cm 


- Fusible film to fix embroidered badges or patches onto garments



## Fusible embroidery inlay – E-ZEE COMFORT WEAR

40 g + (11 g glue)



presentations:  
100 m x 50 cm 

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





Madeira - your partner for quality embroidery threads, stabilisers and accessories for the production of industrial machine embroidery. No matter whether you are active in a particular industrial sector or want to realise intelligent textiles with conductive threads, we offer you support in all areas, from individual advice to expertise and troubleshooting – just contact us!

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