Product Catalogue

Embroidery threads and many other supplies for the industry
Your global partner for one-stop embroidery supplies

As a renowned manufacturer of premium quality embroidery threads for over 100 years, today we are your global partner for a comprehensive range of embroidery materials.

With Madeira Green, we are delighted to introduce a portfolio of new eco-friendly products and services to our customers. Discover the branded products and information in this catalogue and let’s make embroidery more sustainable together.

Our viscose, polyester, wool blends and technical threads are offered in a large variety of colours, weights and make-ups. Bobbin threads, the right needles for every thread, backings, toppings, speciality materials, accessories, embroidery support and training complete our range and make your life easier as we aim to sustainably offer you everything you need for embroidery.

With nine subsidiaries and over 50 partners worldwide, today we successfully supply our products and services in over 100 countries.

We’re sure to be somewhere close to you too and look forward to serving your needs.

Dear customer,
This product catalogue shows you most products or product categories available to order from our sales partners, subsidiaries or webshops around the world. As our range is very large, we kindly ask for understanding that we cannot show every product in detail. If you are missing something or a product is not available locally, please contact your local reseller or us directly for support.

– madeira.com –
Get the most out of your embroidery

For us, embroidery is the most valuable form of embellishment or personalisation.

That’s why we have not only decided to be a specialist for embroidery supplies, but we also feel deeply committed to our customers’ success.

From the careful selection of raw materials and environmentally friendly production processes to intense quality controls, we make sure that all products comply with one goal: providing you the necessary supplies for outstanding embroidery. And as we know that the material is not everything, we also support you with training, advice and service.

Of course, our goods are compliant to many international regulations. So whatever industry sector you’re working for, check our product range for compliance to certifications such as fire retardancy or fire resistance, industry wash or OEKO-TEX® standards.

Your Madeira Team
Table of contents

Rayon viscose threads – Classic ................................................................. page 8
Premium lyocell threads – Sensa Green ................................................ page 10
Recycled polyester threads – Polyneon Green ........................................ page 12
Shiny polyester threads – Polyneon ....................................................... page 14
Matte polyester threads – Frosted Matt ................................................. page 16
Premium metallic threads – FS ............................................................. page 17
Easy-to-use metallic threads – CR ....................................................... page 18
Trendy metallic threads – Supertwist .................................................. page 18
Wool and cotton-blend threads – Burmilana 12 & CO ....................... page 19
Light-reflecting threads – Reflect ....................................................... page 20
Effect and speciality threads – Luna & Monolon ................................... page 21
Highly conductive threads – HC .......................................................... page 23
Fire-resistant and flame-retardant – Fire Fighter & Polyneon FR .......... page 24
Underthreads ........................................................................................ page 26
Stabilisers ............................................................................................. page 28
Tear-away & cut-away backings ......................................................... page 30
Speciality backings ............................................................................ page 31
Toppings and films ............................................................................. page 32
Speciality materials ............................................................................ page 33
Quality embroidery needles ............................................................... page 35
Embroidery tools ................................................................................ page 36
Machine tools ..................................................................................... page 37
Scissors ................................................................................................. page 38
Stitch density ....................................................................................... page 40
Care symbols ........................................................................................ page 41
24/7 online services ............................................................................ page 42
How to quickly find what you’re looking for

Explanation of the symbols used

Please check for the colour-coded icon on each page that shows you where you are.

General information, service and support

All about backings, toppings and other stabilisers

Thread range and information

Accessories (e.g., needles, scissors)

MAKE-UP:

Make-up in metres or gram

In this catalogue the content of the packaging is given. The sales units can differ.

Thread thickness

Number of colours

Needle recommendation

Underthread

Cut-away backings

Tear-away backings

PANTONE® Colour matching

Special suitability for fashion and collection orders

Stable colour / high colour fastness

Label for eco-friendly products and resource-saving processes

Botanical origin / products made from renewable resources

Products made from recycled materials
MADEIRA embroidery threads
State-of-the-art threads for highest machining performance
& thread families
and what makes Madeira threads so special

Thread is much more than simply yarn. It’s a passion for excellence, shine, look, feel, touch and, of course, what it makes out of the embroidered garment. That’s why we take special care in the development and selection of all our threads, in terms of the utmost colour consistency from dye lot to dye lot, soft touch thanks to low thread tension settings while embroidering, and a great choice of types, weights and colours.

- Shiny and matte polyester threads
  - POLYNEON
  - POLYNEON green
  - FROSTED
  - MATT

- Wool and cotton blend threads
  - BURMILANA
  - BURMILANA CO

- Metallic threads
  - CR Metallic
  - FS
  - SUPERTWIST

- Rayon viscose threads
  - CLASSIC

- Speciality threads
  - LONA
  - MONOLON
  - REFLECT

- Premium lyocell threads
  - SEHSA green

- Technical threads
  - HC
  - FIRE FIGHTER
  - POLYNEON FR
Natural silk gloss and maximum flexibility in 4 thread weights. Viscose rayon has a similar structure to cotton and offers a feel and texture resembling those of natural fibres. It provides an uniform and even embroidery appearance.

- high colour fastness to washing, rubbing and perspiration
- consistent colours, look and feel over all thread weights
- the soft thread structure and low thread tension runability of Classic threads avoid looping
- vivid shine, depending on incident light
- made from wood harvested from sustainably managed forests

Smooth viscose is the perfect choice for modern light fabrics and filigree designs.

### CLASSIC 40
100% viscose [filament]

- Art. No. 910 10 x 5000 m
- Art. No. 911 10 x 1000 m
dtex 135 x 2
den 120 x 2
65/9 - 75/11
387 single colours
19 ombré colours
6 multicolours
10 astro-colour

### CLASSIC 30
100% viscose [filament]

- *Art. No. 921 10 x 3000 m
- Art. No. 914 10 x 25 g
dtex 200 x 2
den 180 x 2
75/11
178 single colours
*2 colours (black & white)

### CLASSIC 60
100% viscose [filament]

- *Art. No. 916 10 x 5000 m
- Art. No. 915 10 x 1500 m
dtex 84 x 2
den 75 x 2
60/8 - 65/9
85 single colours
*2 colours (black & white)

### CLASSIC 12
100% viscose [filament]

- Art. No. 920 10 x 2000 m
dtex 330 x 2
den 300 x 2
100/16
57 single colours

CLASSIC No.12 is ideal for overlocking, festoon work and decorative stitching.
Rayon sampling tools

**Assortment Box**

**CLASSIC 40**
387 single colours (1000 m)
Art. No. 005CL4A
005CL4B
005CL4C

**Mini Starter**

**CLASSIC 40**
10 diff. colours x 1000 m
Art. No. 006MICL4

**Shade Card**

**CLASSIC**
Our most comprehensive tool for accurate colour selection.
Art. No. 001CL431

For more detailed information, please see: www.madeira.com/startersets
Experience the Touch of Nature

Sensa Green embroidery thread was developed using performant technologies with reduced impact on the environment.

The raw material is provided by the forest and is renewable. The trees are grown sustainably on non-agricultural soil, with the help of rainwater.

At the factory, they are transformed into woodchips to extract the cellulose. To minimise waste, various products are also obtained from the noncellulosic components.

Further processing creates a pulp from which the biodegradable lyocell fibres are derived.

TENCEL™ Lyocell is produced at Lenzing with resource-saving manufacturing methods, which have received the European Business Award for the Environment. The revolutionary closed-loop technologies recycle water and more than 99% of the organic solvent.

These fibres are then transported short distances and additionally processed. At Madeira’s factory in Germany they get their silk matte colours and are turned into Sensa Green. During these final stages, water and energy are further saved and the wastewater is monitored in line with the strict local regulations.

What emerges: A sensationally soft machine embroidery thread with an incredible performance and look that’s sure to please your senses.
Premium lyocell threads

The first coloured machine embroidery thread made of 100 % strong and smooth TENCEL™ Lyocell fibres embodies the goodness found in nature and is one of the most environmentally friendly choices in the world.

- botanical origin — manufactured from trees grown in sustainably managed forests
- environmentally friendly production that saves and reuses resources
- feather soft and a distinguished silk-matte look
- suitable for many designs digitized for 40-weight threads
- a completely new embroidery experience in premium quality
- fully recyclable to support the progress of the textile industry

An undyed version is also available (no. 071)
- offers maximum flexibility and a harmonious colour fit
- for overdye applications

Use lyocell underthreads for a consistent feel and truly sustainable end result – page 26.

**Assortment Box**

| Shade Card | 
| --- | --- |
| **SENSA green** | 100 % lyocell [TENCEL™] | 
| Art. No. 710 | 144 colours (1000 m) | 
| dtx 100 x 2 | Art. No. 005SE00 | 
| den 90 x 2 | **Available** | 
| 65/9 - 75/11 | 2022 | 
| 144 single colours | **TENCEL™ is a trademark of Lenzing AG** | 

**Madeira**

- 11 -
Recycling plain plastic into radiant embroideries

Not easy to make, but it has many eco-advantages. By reusing existing materials, no new waste is created, and non-renewable resources are saved. The environment also benefits from the reduced energy consumption and fewer carbon emissions when compared to the production of virgin polyester.

How do we make it happen?

1. PET RECYCLED BOTTLES
2. FLAKES
3. CHIPS
4. EXTRUSION
5. NEW BRILLIANT THREAD
6. VOILÀ! HIGH-QUALITY EMBROIDERY FROM RECYCLED POLYESTER THREADS
Recycled polyester threads

Premium embroidery threads developed in response to the global demand to reduce the number of plastic containers that end up in nature. Extremely robust and shiny, they offer the same high quality as all other polyester threads from Madeira, while being part of the solution.

- made of 100 % recycled plastic
- give a new life to post-consumer PET bottles
- save non-renewable resources
- excellent performance on industrial machines
- high resistance, including to chlorine
- produce brilliant and sustainable embroideries

For sampling please use Polyneon 40 assortment box (Art. No. 005PO40)

For colour selection, please use the Polyneon shadecards no. 83 or 84 with an added Polyneon Green inlay (Art. No. 001PL84).
Particularly robust threads for heavily stressed textiles. Available in over 400 colours, including fashionable neon shades. Compared to other polyester threads, they can be processed with a lower thread tension, which provides a nice, loose result.

- suitable for chlorine bleaching, stone wash and industrial laundry
- lightfast, cost-effective & resistant to abrasion
- high tear resistance

**Shiny polyester threads**

- 100% polyester [filament]
- 100% polyester [filament]
- 100% polyester [filament]

**POLYNEON 40**
- 100% polyester [filament]
- Art. No. 918
  - 10 x 5000 m
- Art. No. 919
  - 10 x 1000 m
- dtex 135 x 2
den 120 x 2
- 60/8 - 75/11
- 389 single colours
  - 20 multicolours
  - 24 fluorescent colours

**POLYNEON 60**
- 100% polyester [filament]
- *Art. No. 926
  - 10 x 5000 m
- Art. No. 924
  - 10 x 1500 m
dtex 84 x 2
den 75 x 2
- 60/8 - 65/9
- 143 single colours
  - 7 fluorescent colours
  - 2 colours (black & white)

**POLYNEON 75**
- 100% polyester [filament]
- *Art. No. 935
  - 10 x 10000 m
- Art. No. 936
  - 10 x 2500 m
dtex 55 x 2
den 50 x 2
- 60/8
- 87 single colours
  - 3 fluorescent colours
  - 2 colours (black & white)
Polyester sampling tools

Assortment Box

**POLYNEON 40**
413 colours (1000 m)
Art. No. 005PO40A
005PO40B
005PO40C

Assortment Box

**POLYNEON 60**
150 colours (1000 m)
Art. No. 005POL60

Shade Card

**POLYNEON**
Our most comprehensive tool for accurate colour selection.
Art. No. 001PL84

Mini Starter

**POLYNEON 40**
10 diff. colours x 1000 m
Art. No. 006MIPL4

For more detailed information, please see: www.madeira.com/startersets
Matte polyester threads

The world's first real frosted-effect thread for clear contours and strong contrasts in over 200 shades for whole new colour dimensions.

- very high colour fastness to light (grades 6 to 8, except neon shades)
- resistant to chlorine and other bleaching agents
- great for thread mixing, lettering or effects on functional wear and other garments
- truly matte effect due to the industrial oxide ceramic (titanium dioxide) incorporated into the polyester spinning mass from which the continuous filaments are made

Frosted Matt 40 should be punched like a 55 - 60 thread.

<table>
<thead>
<tr>
<th>FROSTED MATT 40</th>
<th>FROSTED MATT 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 % polyester</td>
<td>100 % polyester</td>
</tr>
</tbody>
</table>

Art. No. 940 10 x 2500 m  
Art. No. 942 10 x 1000 m  
dtex 90 x 2  
den 80 x 2  
60/8 - 75/11  
187 single colours  
14 fluorescent colours

Art. No. 944 10 x 2500 m  
dtex 175 x 2  
den 160 x 2  
70/10 - 80/12  
89 single colours  
7 fluorescent colours

Assortment Box

**FROSTED MATT 40**
201 single colours (1000 m)

Art. No. 005FM40A
005FM40B

Mini Starter

**FROSTED MATT 40**
10 diff. colours x 1000 m

Art. No. 006MIFM4

Shade Card

**FROSTED MATT**
Our most comprehensive tool for accurate colour selection.

Art. No. 001FR112
Premium metallic threads

Luxurious metallic threads for golden moments with an exclusive shine thanks to the silver foils wrapped around a polyamide, polyester or viscose core. In addition, special threads for elegant shiny effects.

- FS 40’s construction contains special paper to prevent the metallised foil from moving and exposing the polyamide core
- FS 30 is suitable for hard-wearing embroideries (chlorine resistant, washable at 95 °C)
- the fine thread FS 50 and the thick FS 20 allow shaping contours, respectively to add volume and metallic outlines
- various choices for metallic effects in timeless silver and gold nuances or eye-catching colours

FS 20
80 % viscose 20 % metallised polyester
Art. No. 974 10 x 100 g
Art. No. 981 5 x 20 g
dtex 360 den 320
100/16
26 single colours

FS 30
55 % polyester 45 % metallised polyester
Art. No. 980 10 x 5000 m
Art. No. 979 10 x 2500 m
dtex 320 den 290
90/14 80/12 SAN®8
20 single colours

FS 40
40 % metallised polyester 35 % polyamide, 25 % paper
Art. No. 986 10 x 5000 m
Art. No. 985 5 x 1000 m
dtex 220 den 200
65/9 - 75/11
21 single colours

FS 50
55 % metallised polyester 45 % polyamide
Art. No. 988 10 x 5000 m
Art. No. 987 5 x 1000 m
dtex 150 den 135
65/9 - 75/11
8 single colours

Shade Card

FS SUPERTWIST
Our most comprehensive tool for accurate colour selection.
Art. No. 001FS73
Easy-to-use & trendy metallic threads

The durable, smooth-running game changer in shiny and vivid colours. Feels particularly smooth on the skin and is suitable for baby articles. Furthermore, CR is resistant against abrasion and provides outstanding quality at a competitive price.

- runs perfectly with standard needle sizes
- great running performance at high speeds of 700 to 1000 stitches per minute
- washable at high temperatures

CR Metallic 40
68 % polyester
32 % metallised polyester

Art. No. 978
10 x 2500 m

dtex 230
den 210
65/9 - 75/11
42 single colours

CR Metallic 20
80% polyester [texturised]
20 % metallised polyester

Art. No. 975
10 x 2000 m

dtex 510
den 460
90/14
80/12 SAN®8
16 single colours

Download the CR flyer: madeira.com/CR-metallic

Versatile structured effect thread that offers a beautiful shimmer. Especially suitable for glittering effects for fashion applications, streetwear or decorative sewing on denim.

- over 120 stylish colours and a special texture provide cool design effects

SUPERTWIST 30
70 % polyamide
30 % metallised polyester

Art. No. 982
10 x 5000 m

Art. No. 983
5 x 1000 m
(opal colours 900 m)
dtex 180
den 160
90/14
80/12 SAN®8
68 single colours
11 multicolours
16 opal colours
26 crystal colours
Wool and cotton-blend threads

Voluminous handcrafted look for vintage or volume embroidery designs in over 200 colours.

- wool-acrylic or cotton-acrylic mixtures
- ideally suited for large filling areas
- Burmilana CO is certified with STANDARD 100 by OEKO-TEX®, product class I

The design elements digitised for Burmilana help reduce the number of stitches in an embroidered pattern – good coverage in fully embroidered area by voluminous relief formation.

<table>
<thead>
<tr>
<th>BURMILANA 12</th>
<th>BURMILANA CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 % wool</td>
<td>50 % cotton</td>
</tr>
<tr>
<td>50 % acrylic</td>
<td>50 % acrylic</td>
</tr>
<tr>
<td>Art. No. 813</td>
<td>Art. No. 816</td>
</tr>
<tr>
<td>10 x 1000 m</td>
<td>10 x 1000 m</td>
</tr>
<tr>
<td>dtx 330 x 2</td>
<td>dtx 330 x 2</td>
</tr>
<tr>
<td>den 300 x 2</td>
<td>den 300 x 2</td>
</tr>
<tr>
<td>100/16</td>
<td>100/16</td>
</tr>
<tr>
<td>135 single colours</td>
<td>65 single colours</td>
</tr>
<tr>
<td>12 mélangé colours</td>
<td>7 mélangé colours</td>
</tr>
</tbody>
</table>

*3351, 3352, 3353, 3354, 3643, 3644, 3749, 3901, 3986

Shade Card

BURMILANA

Our most comprehensive tool for accurate colour selection.
Art. No. 001BUR610
Light-reflecting threads

Light up your designs! This new surprise effect thread reflects light in the dark. Use it to play with the visibility of machine embroideries on clothes or accessories. Suitable for designs digitalised for 35 or 40-weight threads.

REFLECT
75% polyester
25% polyamide

Art. No. 442
10 x 500 m

for 35 or 40-weight designs*

75/11 - 90/14

1 single colour

* Due to the fibre composition and the special construction of the Reflect thread, the thickness can't be provided in Nm and dtex. The weight of the thread might vary slightly, therefore the design should be tested in advance.
Effect and speciality threads

Easy-to-process, glow-in-the-dark effect thread that stores light when held under the sun or artificial light.

- gives off light through a greenish glow
- special construction for strong and long-lasting luminosity
- for glowing effects on children’s clothing, as well as Halloween and carnival articles

**LONA**

60% polyester
40% polypropylene

Art. No. 996
10 x 750 m

dtex 150 x 2
den 135 x 2

75/11 - 80/12

1 single colour

Transparent speciality monofilament for the invisible attachment of sequins and LEDs, as well as for filigree work. Mix colourful and transparent threads for unique effects.

- available in two colours (“transparent” & “smoke”)

**MONOLON**

100% polyamide

Art. No. 801
10 x 15000 m

dtex 66
den 60

65/9

2 single colours (transparent & smoke)
Technical threads

- Sensors
- Heating
- Lighting
- Actuators
- Flexible circuits
Highly conductive threads

Fully silver-plated with 99 % pure silver, highly conductive polyamide thread in two weights.

- silver is skin-friendly, antibacterial, antistatic & biocompatible
- for flexible circuitries, connecting LEDs, textile sensors, actuators and heating
- attachable by the use of embroidery, conductive glue or clamps
- silver plating around every single filament

Download the HC flyer
madeira.com/smart-textiles

We recommend turning the textiles inside out and placing them in a laundry bag before washing.

HC 12
100 % polyamide [fully silver plated]

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>420</th>
<th>420SMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 1000 m</td>
<td>1 x 150 m</td>
<td></td>
</tr>
<tr>
<td>dtex 235 x 2 (before plating)</td>
<td>117 x 2 (before plating)</td>
<td></td>
</tr>
<tr>
<td>100/16</td>
<td>75/11 - 80/12</td>
<td></td>
</tr>
<tr>
<td>1 single colour</td>
<td>1 single colour</td>
<td></td>
</tr>
<tr>
<td>Resistance: &lt; 100 Ω/m</td>
<td>Resistance: &lt; 300 Ω/m</td>
<td></td>
</tr>
</tbody>
</table>

HC 40
100 % polyamide [fully silver plated]

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>410</th>
<th>410SMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 2500 m</td>
<td>1 x 250 m</td>
<td></td>
</tr>
<tr>
<td>1 single colour</td>
<td>1 single colour</td>
<td></td>
</tr>
<tr>
<td>Resistance: &lt; 300 Ω/m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Fire-resistant and flame-retardant threads

Flame-resistant aramid embroidery thread in 30 colours.

- for security applications for motorsports, aeroplanes, workwear and protective clothing
- tested according to DIN EN ISO 15025
- allows the following certifications to be obtained:
  - DIN EN 469, DIN EN ISO 14460, DIN EN ISO 11612 -A -B -C,
  - DIN EN 61482-1-2 K1, DIN EN 13034 K1, DIN EN ISO 11611,
  - DIN EN ISO 14116, DIN 4102 Part 1 B 1, and other national norms

FIRE FIGHTER 40
100% aramid

Art. No. 929
10 x 2500 m

Art. No. 922
10 x 950 m
dtex 130 x 2
den 120 x 2
75/11 - 80/12
30 single colours

For complete protection you must use also the heat-resistant bobbin threads and backings - pages 26 & 31.

Flame-retardant thread in 30 single and 4 fluorescent colours.

- tested according to DIN EN ISO 11612 D&E
- compliant with DIN EN ISO 11611, DIN EN ISO 14116, DIN 4102 Part 1 B1
- optimised for industrial embroidery machines
- for applications on workwear, curtains or car seats

POLYNEON FR
100% polyester [filament]

Art. No. 933
10 x 2500 m
dtex 135 x 2
den 120 x 2
60/8 - 75/11
30 single colours
4 fluorescent colours

Included in the Polyneon shade card
Art. No. 001PL84
GO GREEN
with sustainable embroidery products

100 % TENCEL™ Lyocell
top and bobbin threads

100 % GRS recycled polyester
shiny top threads

(For details regarding the certification see page 13.)
Underthreads for self-winding

For rewinding:

**BURMILON 200**
- Art. No. 305
  - 10 x 7500 m
- dtex 150 x 1
  - den 135 x 1
- 2 colours (black & white)
- Extremely fine underthread to avoid frequent bobbin changes.
- PLEASE NOTE: Adjustment to the machine might be necessary!

**BURMILON 120/2**
- Art. No. 301
  - 10 x 7500 m
- dtex 80 x 2
  - den 75 x 2
- 2 colours (black & white)
- BURMILON 120/2: The twisted classic!

**UNDERTHREAD 150**
- Art. No. 315
  - 10 x 15000 m
- dtex 110 x 2
  - den 100 x 2
- 2 colours (black & white)
- UNDERTHREAD 150: An economic allrounder bobbin thread.

### For rewinding:

**BURMILON 200 & 120/2, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**SENSA GREEN BOBBIN**
- max. 40 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**SENSA GREEN BOBBIN**
- FIRE FIGHTER BOBBIN THREAD
  - max. 40 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.

**BURMILON 120/2 & 200, UNDERTHREAD 150**
- FIRE FIGHTER BOBBIN THREAD
  - max. 20 g active chlorine/l - max. 30°C - max. 30 min.
Underthreads pre-wound bobbins

**Prewound bobbins:**

**MAGNETIC SIDED BOBBINS**  
with magnetic side disc  
100 % polyester [filament]  
Art. No. 308  
ca. 123 m/spool  
ca. 113 m/spool  
dtex 75 x 2  
den 70 x 2  
2 colours  
(black & white)  
package with 144 spools

**ROYAL**  
with side discs  
100 % polyester [filament]  
Art. No. 307  
ca. 123 m/spool  
ca. 113 m/spool  
dtex 75 x 2  
den 70 x 2  
2 colours  
(black & white)  
package with 144 spools

**MAGNETIC CORE BOBBINS**  
with magnetic core  
100 % polyester [filament]  
Art. No. 317  
ca. 135 m/spool  
ca. 123 m/spool  
dtex 75 x 2  
den 70 x 2  
2 colours  
(black & white)  
package with 144 spools

**MAGNETIC SIDED BOBBINS:**  
The magnetic-sided disc ensures smoother running and prevents looping.

**ROYAL:**  
With side discs, no winding from large cones necessary! Practical, always at hand and with consistent thread quantity and tension.

**MAGNETIC CORE BOBBINS:**  
The lower thread bobbin with magnetic core for a particularly even flow. Fewer bobbin changes – saves underthread, thanks to its special construction with open sides.
Stabilisers

E-ZEE

E-ZEE backings, toppings and speciality materials.
Stabilisation of embroidery and fabric for outstanding quality and consistent results.

To make things easier, we have developed a backing selector, helping you to find the ideal stabiliser for your demands. Just search by fabric type, weight, application or operational purpose and find what you need.

At madeira.com/backings you'll find more information about our embroidery stabilisers and the backing selector PDF file to download.

Please note that the backing selector shows the Madeira HQ range.

If your desired backing is not available in your country, please contact your local reseller or our customer service for suggestions on substitution products.
The right stabiliser for every application

Embroidery stabilisers like toppings, backings and speciality materials help you to get a durable, even and high-quality embroidery result. Without using any stabilisation, thin fabrics tend to pucker or the embroidery might feel scratchy on the skin or lose its shape. Most important for choosing the right stabiliser is the adaption to the fabric and the embroidered design. Whatever your requirements, we offer a wide range to support you in finding the right solution for your needs.

The following pages provide an overview of:

- tear-away & cut-away backings
- fusible & adhesive backings
- wash-away & heat-soluble backings
- heat-resistant backings
- toppings & films
- speciality materials

Find all backings available in your country by contacting your local partner or ask for a information sheet / pack of the Madeira backing range.
Tear-away & cut-away backings

**Tear-away**

Tear-away backings can be removed quickly by simple and multi-directional tearing. These mainly short-fibre backings are particularly suitable for more stable materials such as denim, twill, canvas or caps. Also available as handy pre-cuts.

Premium backings from 35 - 80 g available in two colours.

**Cut-away**

Cut-away backings are especially appropriate for delicate fabrics. They remain part of the embroidery and thus serve as a permanent stabiliser. The protruding backing can be easily cut away while the rest remains soft to the skin. Available on rolls and as pre-cuts.

Cut away backings (available from 35 - 80 g) can be removed with a seam ripper.

We offer three different quality levels divided into **BASIC, STANDARD** and **PREMIUM**. The assortments and ranges are country specific.

**SERVICES**

Pre-cuts

Black & white pre-cuts for different backings available.

Discover Madeira’s backings and toppings @ madeira.com/backings
Speciality backings

These backings are your assistants for difficult tasks. They can be used in areas that are challenging or impossible to frame and for fabrics that cannot or should not be framed (cord, velvet, velour, etc.).

Fusible backings
allow stabilisation of the fabric before framing and have a bonding side that is activated when ironed. Available as tear-away or cut-away versions in different weights and qualities.

Adhesive backings
are particularly used for small items. They have a release paper to be removed on one side and can be attached to the embroidery with pressure. They exist as tear-away versions in two strengths.

Wash-away backings
are 100 % water soluble and should therefore be used for garments that can be washed. You can choose between a textile structure material, and water-soluble embroidery film. Particularly suitable for lace embroidery.

Heat-soluble backings
made out of 100 % polyolefine are mainly used for thin or very stretchy fabrics as well as for patches. They can be completely removed by using a heat press or a standard iron and can be applied without adhesive sprays.

Heat-resistant backing FIRE FIGHTER
Hardly flammable, breathable, tear resistant and stable – this is your backing for special requirements. We offer 100 % aramid and aramid-melamine mix cut-away backings for flame-resistant protective clothing and workwear.

Embroideries are suitable for certifiable heat-resistant safety textiles only when appropriate backings, top and under threads are used.
Toppings and films

Toppings not only prevent individual elements from sinking into knitwear or terrycloth, but also prevent the base material from showing through. They can be easily removed with water or heat without leaving any residue.

Water-soluble toppings

Benefit from residue-free protection for your embroidery with water-soluble films. They prevent the intricate parts of a design from sinking into the fabric, but they also function as a second stabiliser during the embroidery process, especially for stretchy functional wear. Water-soluble toppings can be easily torn away. The rest will completely disappear after washing the piece for the first time.

Heat-soluble films

They can be easily removed through heating with an iron or heat press. These films are mainly used as a substitution for backings or as a base material for badges.
Speciality materials

Madeira offers various speciality materials that might vary according to the country. Our 3D foams help create cool designs on caps and bags, while inlays add comfort and leave the back of the embroidery soft and comfortable. To fix badges to the base material, we offer different adhesive films. If you want to embroider waterproof garments, we recommend water seal films.

BODYBUILDER

Bodybuilder is a 3D foam material to create dimensional embroidery designs. It exists in 2 qualities (hard and soft), each of which is 3 mm thick. Can be used in one or several layers. It is great on caps or hoodies.

Check madeira.com/bodybuilder for usage instructions.

E-ZEE COMFORT WEAR

E-ZEE Comfort Wear is a fusible, bi-elastic jersey interlining to cover the reverse side of embroideries. Its soft surface protects the skin. It is made from a light fabric that doesn't shine through and bonds durably.

E-ZEE HEAT SEAL

Permanent adhesive foils, such as E-ZEE Heat Seal, fix your embroidered patches and badges to garments. Use an iron to attach them to a fabric. They affix easily on various materials.

E-ZEE WATER SEAL

To seal embroidery holes on waterproof garments. Waterproof film is ideal for raincoats and other waterproof items. It stops the water from penetrating through the holes created by the needles while embroidering.

NOTE: Product designations might vary in different countries. For the Maderia HQ range, check the backing finder with product details and article numbers.
Useful accessories for your embroidery routine

Beyond industrial threads and backings, we offer a selection of helpful tools to make your everyday life as a professional embroiderer easier. Discover a comprehensive selection of technical embroidery aids that are available to order together with your consumables from Madeira: your one-stop shop for everything you need for embroidery.

- needles
- scissors
- machine tools
- embroidery tools
Quality embroidery needles

Depending on the subsidiary or partner, we offer a quality selection of needles for industrial embroidery machines, from small 60/8 standard needles to large needle eye versions and hard coating special application needles. Check in your webshop and on the local websites for more details or contact your Madeira distributor for availability.

<table>
<thead>
<tr>
<th>MADEIRA Embroidery Thread</th>
<th>Recommended Needle</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nm 60/8</td>
<td>021060R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>021060RG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>022060RG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>021060HR</td>
</tr>
<tr>
<td>Classic</td>
<td>Brother PR 60/8</td>
<td>021065R</td>
</tr>
<tr>
<td>Polyneon (Green)</td>
<td></td>
<td>021065RG</td>
</tr>
<tr>
<td>Polyneon FR</td>
<td></td>
<td>022065RG</td>
</tr>
<tr>
<td>Frosted Matt</td>
<td></td>
<td>021065HR</td>
</tr>
<tr>
<td>No. 60</td>
<td>No. 75, 60, 40</td>
<td>Nm 65/9</td>
</tr>
<tr>
<td></td>
<td>021065R</td>
<td></td>
</tr>
<tr>
<td></td>
<td>021065RG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>022065RG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>021065HR</td>
<td></td>
</tr>
<tr>
<td>No. 40</td>
<td>No. 60, 40</td>
<td>Nm 70/10</td>
</tr>
<tr>
<td>Classic</td>
<td>Brother PR 70/10</td>
<td>021070HR</td>
</tr>
<tr>
<td>Polyneon (Green)</td>
<td></td>
<td>021070RG</td>
</tr>
<tr>
<td>Polyneon FR</td>
<td></td>
<td>022070RG</td>
</tr>
<tr>
<td>Frosted Matt</td>
<td></td>
<td>024070RG</td>
</tr>
<tr>
<td>FS</td>
<td>No. 50, 40</td>
<td>Nm 75/11</td>
</tr>
<tr>
<td>CR</td>
<td>No. 40</td>
<td>021075R</td>
</tr>
<tr>
<td>Sensa Green, Monolon</td>
<td>No. 40</td>
<td>021075RG</td>
</tr>
<tr>
<td>No. 40</td>
<td>No. 40</td>
<td>022075RG</td>
</tr>
<tr>
<td>Classic</td>
<td>Brother PR 75/11</td>
<td>021075HR</td>
</tr>
<tr>
<td>Polyneon (Green)</td>
<td></td>
<td>024075RG</td>
</tr>
<tr>
<td>Polyneon FR</td>
<td>No. 40</td>
<td>024075SES</td>
</tr>
<tr>
<td>Frosted Matt</td>
<td>No. 40, 30</td>
<td>Nm 80/12</td>
</tr>
<tr>
<td>Sensa Green, Luna, Reflect</td>
<td>No. 40</td>
<td>021080RG</td>
</tr>
<tr>
<td>Fire Fighter</td>
<td>No. 40</td>
<td>022080RG</td>
</tr>
<tr>
<td>Luna</td>
<td>No. 20</td>
<td>021080HR</td>
</tr>
<tr>
<td>CR</td>
<td>No. 30</td>
<td>024080RG</td>
</tr>
<tr>
<td>Frosted Matt</td>
<td>No. 20</td>
<td>No. 30</td>
</tr>
<tr>
<td>Fire Fighter</td>
<td>No. 40</td>
<td>Nm 90/14</td>
</tr>
<tr>
<td>Luna</td>
<td>No. 20</td>
<td>021090R</td>
</tr>
<tr>
<td>CR</td>
<td>No. 30</td>
<td>021090RG</td>
</tr>
<tr>
<td>Supertwist Reflect</td>
<td>No. 20</td>
<td>021090HR</td>
</tr>
<tr>
<td></td>
<td>No. 30</td>
<td>Nm 100/16</td>
</tr>
<tr>
<td>FS</td>
<td>No. 12, CO</td>
<td>021100R</td>
</tr>
<tr>
<td>Classic</td>
<td>No. 12</td>
<td>021100FG</td>
</tr>
<tr>
<td>FS</td>
<td>No. 20</td>
<td>024100R</td>
</tr>
<tr>
<td>Burmilana</td>
<td>No. 12</td>
<td>024100UK</td>
</tr>
<tr>
<td>Classic</td>
<td>No. 12</td>
<td>021100R</td>
</tr>
<tr>
<td>FS</td>
<td>No. 20</td>
<td>024100R</td>
</tr>
<tr>
<td>Brother PR 100/16</td>
<td>021100FG</td>
<td></td>
</tr>
<tr>
<td>Brother PR 100/16</td>
<td>024100R</td>
<td></td>
</tr>
<tr>
<td>Brother PR 100/16</td>
<td>024100UK</td>
<td></td>
</tr>
</tbody>
</table>
**Embroidery tools**

Store, protect or maintain – here you can find your ideal tools to ease your everyday embroidery life.

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seam ripper</td>
<td>Handy multi-purpose tool for removing embroidery stitches, seams or backings. Sharp blade, security ball and protective lid.</td>
<td>020N9469</td>
</tr>
<tr>
<td>Adhesive sprays</td>
<td>Sprays for temporarily fixing appliqué fabrics, 3D foam or backings that can’t be framed to the fabric. Content: 350 g</td>
<td>025MSAN</td>
</tr>
<tr>
<td>Cone holder</td>
<td>Solid wood holder for 18 cones. Can be stacked, therefore you will have always your most important colours available.</td>
<td>050CO18</td>
</tr>
<tr>
<td>Cone nets</td>
<td>Elasticated cone net to improve the running performance of metallic threads on your machine.</td>
<td>050NET</td>
</tr>
<tr>
<td>Tension gauges</td>
<td>Always get your thread tension right by using a bobbin or top thread thread gauge. Additional analogue or digital versions available.</td>
<td>050GAUGE</td>
</tr>
</tbody>
</table>

Please note that the assortment might vary depending on local availability.
Machine tools

Oil pen
Art. No. 050PEN
Access difficult-to-reach parts of your machine for precise oil application. Reuse your oil pen as often as you want: refillable with your standard embroidery machine oil.
Content: 7.39 ml

Oil spray
Art. No. 025LB5VD
High performance spray for around 3,600 applications. For needle bar drive, connecting rod, axial bearings and sintered bushing / felt rings.
Content: 300 ml

Spool tops
Art. No. 050TOP
Improve the usability of embroidery spools by increasing the unwinding diameter of the standard spools.

Cone & spool holder
Art. No. 050SPCON
Placed on the top of your machine, it allows you to switch easily from disc spools to cones.

Please note that the assortment might vary depending on local availability.
Madeira offers embroidery scissors in different shapes & sizes. What they have in common is the high precision cut right up to the point and the use of the best materials. They fulfil even the highest requirements and ensure long-term durability.

### High-quality embroidery scissors, 22 carat gold-plated, free from nickel and thus kind to the skin

<table>
<thead>
<tr>
<th>Scissors</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved Embroidery Scissors</td>
<td>020N9476</td>
</tr>
<tr>
<td>Double Curved Embroidery Scissors</td>
<td>020N9478</td>
</tr>
<tr>
<td>Straight Embroidery Scissors</td>
<td>020N9477</td>
</tr>
<tr>
<td>Special Scissors (FIRE FIGHTER)</td>
<td>020N9495</td>
</tr>
</tbody>
</table>

- **Curved Embroidery Scissors**
  - The curved point allows a precise and safe cut without damaging the fabric. Ideal for removing connecting stitches.

- **Double Curved Embroidery Scissors**
  - Allows you to reach areas that are not easily accessible, such as the presser foot. The double curve shape holds the fingers away from the fabric.

- **Straight Embroidery Scissors**
  - The standard scissors for all cutting work at the embroidery machine.

- **Special Scissors (FIRE FIGHTER)**
  - To cut backings made of aramid smoothly. Standard scissors do not cut such special backings very well and soon become blunt.

### The professional chromium-plated steel embroidery scissors

<table>
<thead>
<tr>
<th>Scissors</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved Precision Embroidery Scissors</td>
<td>020N9491</td>
</tr>
<tr>
<td>Appliqué Scissors</td>
<td>020N9493</td>
</tr>
<tr>
<td>Thumb Grip Snips</td>
<td>020N9492</td>
</tr>
<tr>
<td>Snips</td>
<td>020N9494</td>
</tr>
</tbody>
</table>

- **Curved Precision Embroidery Scissors**
  - The particular shape at the top of the scissors ensures trouble-free work on the frame. The curved points prevent fabric and embroidery damage.

- **Appliqué Scissors**
  - Precision scissors for appliqué, trimming and quilt work. The shaped ‘bill’ prevents damage to the fabric or appliqué.

- **Thumb Grip Snips**
  - Indispensable for many fabric work where precision is required. Automatic spring-back to the initial position, and an ergonomic shape.

- **Snips**
  - For a quick and clean cut. Automatically springs back to its starting position and has a blade made of hardened steel.
Always close to you, we’re permanently improving our service and support to offer you the best embroidery experience possible.

- stitch density
- care instructions
- online services
- benefits

New **how-to** section with best practice tutorial videos at [madeira.com/best-practice](http://madeira.com/best-practice)
Due to the different thread weights, the stitch density needs to be adjusted while digitising. Also, it might be that different needle sizes have to be used on the embroidery machine.

The following overview shows which stitch density and which needle sizes are suitable for which embroidery thread. Only the right combination of both stitch density and needle size will lead to a satisfactory embroidery result.

All tips are only to be considered as rough guidelines and may vary depending on the fabric to be used and on the effect to be achieved. Monolon and HC threads are for special and technical usages, therefore such values are not relevant for them.

**Guidelines for underthread use:**
For standard length stitches, the general rule for underthread requirement is around 3 m per 1000 stitches.

**Upper thread:** You can expect approximately 5 m per 1000 stitches.

**Correct thread tension:**
Perfectly tensioned embroidery with standard-length stitches should have around one third of the underthread visible on the reverse side of the fabric.
### Washing

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. 95°C</td>
<td>(normal process)</td>
</tr>
<tr>
<td>max. 60°C</td>
<td>(normal process)</td>
</tr>
<tr>
<td>max. 60°C</td>
<td>(mild process)</td>
</tr>
<tr>
<td>max. 40°C</td>
<td>(normal process)</td>
</tr>
<tr>
<td>max. 40°C</td>
<td>(mild process)</td>
</tr>
<tr>
<td>max. 40°C</td>
<td>(very mild process)</td>
</tr>
</tbody>
</table>

### Bleaching

- Any bleaching agent allowed!
- Only oxygen bleach possible! No chlorine bleach!
- Do not bleach!

### Drying

- Tumble drying possible. Normal temperature. Maximum exhaust temperature 80°C.
- Tumble drying possible. Drying at lower temperature. Maximum exhaust temperature 60°C.
- Do not tumble dry!

### Ironing

- Iron at a maximum soleplate temperature of 200°C.
- Iron at a maximum soleplate temperature of 150°C.
- Iron at a maximum soleplate temperature of 110°C without steam. Steam ironing can cause irreparable damage!
- Do not iron!

### Professional textile care (dry)

- Professional dry-cleaning in: perchloroethylene, hydrocarbons. Commercial stain removers on a solvent base may be used with some restrictions. (normal cleaning process)
- Professional dry-cleaning in: perchloroethylene, hydrocarbons. Commercial stain removers on a solvent base may be used with some restrictions. (mild cleaning process)
- Professional dry-cleaning in: hydrocarbons. Commercial stain removers on a solvent base may not be used. (normal cleaning process)
- Professional dry-cleaning in: hydrocarbons. Commercial stain removers on a solvent base may not be used. (mild cleaning process)
- No dry-cleaning possible!

### Professional textile care (wet)

- Professional wet cleaning! (normal process)
- Professional wet cleaning! (mild process)
- Professional wet cleaning! (very mild process)
- No wet cleaning possible!

---

**Care instructions for embroideries**

Embroidered articles must never lie on top of each other or be pressed together when they are damp or wet.

The embroideries can be ironed on the reverse side or between two protective cloths.

---

The letters in the circle are primarily intended for the chemical cleaners. They provide information about the permitted solvents. The bars below the circle mean that the mechanical strain during cleaning, the added moisture, soaking and/or drying temperatures must be reduced.

The symbol for wet cleaning is used for items that can be treated in a wet cleaning procedure in water. The requirements for the machine equipment, tools needed and finishing methods cannot be achieved by the parameters of a household washing machine.
24/7 online services

WEBSITE: www.madeira.com
Find all relevant information at a glance on our newly designed website.

WEBSHOP
Available in many countries, Madeira subsidiaries or our distributors offer convenient state-of-the art online shopping for products and services. Check your regional shop or contact us for support.

Social Media
Facebook channels help you to discover what’s going on. Instagram provides embroidery inspiration and ideas. YouTube hosts our tutorials, educational videos and webinars.

Madeira APP
Discover our app with digital shade cards and direct shop access

Available for
Benefits to get the most out of your embroidery

Where to find more support to create great embroidery designs

How-tos and FAQ
Find many answers and our practical how-to guides now online and for download at madeira.com/service-support

Embroidery support
Looking to solve embroidery problems or to optimise your designs? We’re always striving to help you. Please check first with your local distributor to see which support is available regionally. Many Madeira subsidiaries and partners can offer professional consulting.

If you need further help, contact us at service@madeira.com by sending us an e-mail with an exact description of your problem. We will contact you to discuss how to proceed.

Got a special request? Don’t worry!
Simply fill out our web form on madeira.com/contact or send an e-mail to sales@madeira.com and tell us what you need.

We’re happy to find a solution!
always close to you
For any further product details and information contact info@madeira.com