



FIRE FIGHTER 40

POLYNEON 40 FR



Flame-
retardant
and fire-
resistant
embroidery
threads



FIRE FIGHTER 40

Fire-resistant embroidery threads

Firefighters, motorsport professionals, and workers in industries such as gas, oil and chemicals operate in environments where there is a risk of garment ignition. In these cases, employers must ensure that employees are adequately protected by providing flame-resistant clothing. This level of protection also applies to any embroidery applied to the garment, which is why specialised threads are available for such applications. In terms of protective performance, there is a distinction between fire-resistant and flame-retardant materials. The Fire Fighter range consists of fire-resistant technical embroidery products designed for professional use.



available in 30 colours

N1845	N1851	N1651	N1957	N1859	N1965	N1838	N1747	N1784	N1815
N1874	N1977	N1842	N1566	N1643	N1924	N1624	N1725	N1884	N1682
N1803	N1610	N1511	N1518	N1918	N1640	N1800	N1523	N1550	N1537

For exact colour identification, please use the MADEIRA FIRE FIGHTER shade card. Printed colours may differ from the original product.

To create fire-resistant embroidery, we recommend using the appropriate bobbin threads and backing.

FIRE FIGHTER UNDERTHREAD

The choice of bobbin thread plays a vital role in ensuring the flame-resistant performance of the finished embroidery. For optimum protection, Fire Fighter top thread should always be paired with the corresponding Madeira 100% aramid bobbin thread. Available in black and white on 5000m cones.



more FIRE FIGHTER products

FIRE FIGHTER EMBROIDERY BACKING

Fire-resistant embroidery backing for protective clothing. This light, breathable, dimensionally stable and tear-resistant fabric combines maximum comfort and safety.



FIRE FIGHTER SPECIAL SCISSORS

For smooth, precise cutting of aramid backings. Standard scissors do not cut these special backings very well and quickly become blunt.



POLYNEON 40 FR

Flame-retardant embroidery threads

Polyneon FR is a flame-retardant embroidery thread with protection permanently integrated into the polymer chain, ensuring it is not affected by washing, ageing, or wear.

It is suitable for use on flame-retardant textiles, such as workwear, protective clothing, curtains, and automotive upholstery, or in any application requiring fire-retardant performance.



available in 34 colours



For exact colour identification, please use the MADEIRA POLYNEON shade card. Printed colours may differ from the original product.

UNDERTHREAD

For complete protection, Polyneon FR (2,500m cone) must be used as the bobbin thread; alternatively, Fire Fighter bobbin thread (5,000m cone) can be used. Both are available in black and white.



Our products help to meet the following standards:

Product name	FIRE FIGHTER	POLYNEON FR
DIN EN 469 Protective clothing for firefighters - performance requirements for protective clothing for firefighting	✓	✗
DIN EN ISO 14460 Protective clothing for racing drivers - protection against heat & fire - performance requirements and test procedures	✓	✗
DIN EN ISO 11612 (replaces EN 531) Protective clothing - clothing that protects against heat and flame	✓ (A, B & C)	✓ (D&E)
DIN EN 61482-1-2 K1 Electrical voltage - protective clothing against the thermal hazards of an electric arc	✓	✗
DIN EN 13034 K1 Protective clothing against liquid chemicals - performance requirements for chemical protective clothing with limited protection against liquid chemicals	✓	✗
DIN EN ISO 11611 Protective clothing for welding and related processes	✓	✗
DIN EN ISO 14116 (replaces EN 533) Protective clothing - protection against heat & flames - materials, material combinations and clothing with limited flame spread	✓	✓ (Index 2)
DIN 4102 Part 1, B1 * Fire behaviour of building materials and components, e.g. curtains	✓	✗
STANDARD 100 by OEKO-TEX®, product class I		✓
STANDARD 100 by OEKO-TEX®, product class II	✓	
Colour selection	30	34

Properties and areas of application

When assessing compliance with testing standards for protective clothing, decorative fabrics, or upholstery fabrics, testing should always be carried out on the finished product.

Please note that only the functionality of the finished workpiece is decisive for the end user. We recommend that the entire product (embroidered textiles) be tested and certified accordingly.

FIRE FIGHTER has been tested in accordance with DIN EN ISO 15025.

FIRE FIGHTER 40

100 % aramid



△ Max. 20g active chlorine / l - max. 30 ° C - max. 30 min.



Art. No. 922
10 x 950 m



Art. No. 929
10 x 2.500 m



dtex 130 x 2
den 120 x 2



75/11 - 80/12



30 single colours



STANDARD
100

95.0.4921
Hohenstein

POLYNEON 40 FR

100 % Polyester filament



△ Max. 20g active chlorine / l - max. 30 ° C - max. 30 min.



Art. No. 933
10 x 2.500 m



dtex 135 x 2
den 120 x 2



60/8 - 75/11



30 single colours
4 fluorescent
colours



STANDARD
100

94.0.6007
Hohenstein

MADEIRA UK LLP
4 Barugh Way

Barker Business Park
Ripon, HG4 5NG

Tel: 01765 641700

shop.madeira.co.uk
sales@madeira.co.uk



SOME OF THE IMAGE CONTENT
WAS CREATED WITH THE
HELP OF AI