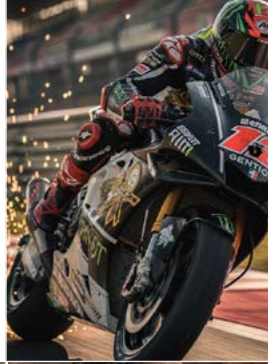




FIRE FIGHTER 40 POLYNEON 40 FR



Flame-
retardant
and hardly
flammable
embroidery
threads



FIRE FIGHTER 40

Flame-retardant embroidery threads

Firefighters, motorsports people and workers in industries such as gas, oil or chemical work in environments where there is a risk of garment ignition. In these cases, employers have to ensure that their employees are adequately protected by providing flame-resistant clothing. Of course, this protection also applies to any embroidery you may want to add the garment, which is why special threads are available for such applications. When it comes to the protective properties of fabric and thread, we differentiate between fire-resistant and flame-retardant materials. The Fire Fighter range consists of fire-resistant technical embroidery products for professional use.



available in 30 colours



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

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

FIRE FIGHTER UNDERTHREAD

The choice of bobbin thread is essential to ensure that the entire embroidery is flame retardant. It is necessary to use the corresponding MADEIRA 100% aramid underthread (5,000 m cones) together with FIRE FIGHTER upper thread. Underthread available in black and white



more FIRE FIGHTER products

FIRE FIGHTER EMBROIDERY BACKING

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



FIRE FIGHTER SPECIAL SCISSORS

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



POLYNEON 40 FR

hardly flammable embroidery threads

Polyneon FR is a flame retardant embroidery thread. The flame - retardant characteristics is sealed into the polymer chain, therefore the flame protection cannot be influenced by ageing or washing. Polyneon FR can be used for embroidering logos or letters onto hardly flammable textiles such as workwear, construction wear, curtains, car seats or wherever effective fire-retardant properties are required



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 you must also use Polyneon FR (2,500 m cone) as bobbin thread or alternatively to use Fire Fighter bobbin thread (5,000 m cone). 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

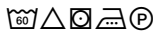
When testing for adherence to testing standards for protective clothing, decorative and upholstery fabrics, always test the final product.

Please note that only the function of the finished workpiece is decisive for the end customer. We recommend that the entire product (embroidered textiles) is 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

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SOME OF THE IMAGE CONTENT
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