



FLAME-RESISTANT

Fabrics and Yarn














A•S•Aktuell AG

Luxemburger Straße 15, 53842 Troisdorf, Germany

Phone: +49 (0) 22 41/258 83 55 | Fax: +49 (0) 22 41/258 83 88 | info@as-aktuell.de | www.as-aktuell.de

Flame-resistant fabrics

Colour	Colour number	Illustration
White ¹	bleached	
Khaki ¹	2752	
Orange ¹	6342	
Red ³	0251	
Dark red ³	5458	
Light green ³	6000	
Royal blue ^{2,3,4}	3850	
Dark blue ⁴	6480	
Graphite ^{1,2,3,4}	0754	
Black ³	N0920	
Signal yellow ⁵	1026	

¹Secan 6301

Material: 100% Cotton
Weight: approx. 290 g/m²

²Secan PLUS 6301

Material: 100% Cotton
Weight: approx. 290 g/m²

³Secan ES 322

Material: 100% Cotton
Weight: approx. 320 g/m²

⁴Secan PLUS ES 322

Material: 100% Cotton
Weight: approx. 330 g/m²

⁵proTEC 8259

Material: 55% Modacrylic/45% Cotton
Weight: approx. 310 g/m²

According to the manufacturer all fabrics listed above are suitable for the proper use as protective garments in accordance with EN ISO 11612 and EN ISO 11611.

As reported by the manufacturer all fabrics are Eco-Text certified. Product data sheets as well as copies of the Eco-Text certificate issued to the manufacturer are available upon request.

Flame-resistant name badges













Flame-resistant custom embroidered patches













Additional fabrics are available upon request.

Flame-resistant yarn

N-tech 70 and N-tech CS 80/2

Colour	Colour number	Illustration
White	1000*	
Yellow	118	
Signal Yellow	1426	
Orange	450	
Red	503	
Dark red	109	
Apple green	8507	
Light green	222	
Dark green	216	
Khaki	663	

Colour	Colour number	Illustration
Light blue	273	
Royal blue	815	
Dark blue	816	
Navy	821	
Beige	1222	
Brown	264	
Light grey	1140	
Graphite	416	
Dark grey	348	
Black	4000	

*Slight variations in colour are possible due to the raw materials used.

N-tech 70

N-tech 70 is a heat-resistant, non-melting and self-extinguishing yarn made of meta-Aramid tow spun fibres of the brand DuPont™ NOMEX® for high temperatures. It holds a continuous temperature resistance of approx. 220 °C while the decomposition-temperature is approx. 370 °C. N-Tech 70 is certified according to DIN EN ISO 15025 and complies with DIN EN ISO 11611, DIN EN ISO 11612, DIN EN ISO 14116 and DIN EN 469. Verification necessarily needs to be done with all components put together to the final product.

N-tech CS 80/2

N-tech CS 80/2 is a heat-resistant, non-melting and self-extinguishing yarn made of long mate-aramid tow spun fibres of the brand DuPont™ NOMEX® for high temperatures. It holds a continuous temperature resistance of approx. 220 °C while the decomposition-temperature is approx. 370 °C. N-tech CS 80/2 is certified according to DIN EN ISO 15025 and complies with DIN EN ISO 11611, DIN EN ISO 11612, DIN EN ISO 14116 and DIN EN 469. Verification necessarily needs to be done with all components put together to the final product.

Madeira Fire Fighter yarn is available upon request.

Product data sheet N-tech 70

Use


For heat protective clothing, work gloves, racing wear, low flammability textiles and embroideries. For the most pressurised seams of heat resistant clothing, e.g. closing seams, and for the manufacturing of trousers and jackets.

Technical characteristics

Raw material	Nomex® DuPont™ (Meta-Aramid)
Construction	Fibre yarn, tow spun
Fineness (Nm) (ISO DIN EN ISO 2060)	approx. Nm 64/3
Fineness (dtex) (ISO DIN EN ISO 2060)	approx. 158 * 3 dtex
Max. tensile strength (ISO DIN EN ISO 2062)	approx. 1623 cN
Max. tensile force expansion (ISO DIN EN ISO 2062)	approx. 21%

Fastness and resistance

Sweat fastness (ISO 105 E04)	≥ 3–4
Water proof (ISO 105 E01)	≥ 4
Wash fastness 60°C (ISO 105 C06-C2S)	≥ 4–5
Abrasion resistance 1) dry (ISO 105 X12)	≥ 4
Abrasion resistance 2) wet (ISO 105 X12)	≥ 4

Care symbols	
--------------	---

Product data sheet N-tech CS 80/2

Use

For heat protective clothing, work gloves, racing wear, low flammability textiles and embroideries.

Technical characteristics

Raw material	Nomex® DuPont™ (Meta-Aramid)
Construction	Fibre yarn, tow spun
Fineness (Nm) (ISO DIN EN ISO 2060)	approx. Nm 74/2
Fineness (dtex) (ISO DIN EN ISO 2060)	approx. 135 * 2 dtex
Max. tensile strength (ISO DIN EN ISO 2062)	approx. 747 cN
Max. tensile force expansion (ISO DIN EN ISO 2062)	approx. 23%

Fastness and resistance

Sweat fastness (ISO 105 E04)	≥ 3–4
Water proof (ISO 105 E01)	≥ 4
Wash fastness 60°C (ISO 105 C06-C2S)	≥ 4–5
Abrasion resistance 1) dry (ISO 105 X12)	≥ 4
Abrasion resistance 2) wet (ISO 105 X12)	≥ 4

Care symbols	
--------------	--

State of data 2012; established on 06/03/14. Details and technical data mentioned above are only for information; the areas of application are merely examples and to be understood as subject to testing for individual technical specifications.