



# FIREFIGHTER PARTICULATE

## IDEAL FOR

- Structural firefighters.
- High-level protection from thermal risk such as flashover, contact and radiant heat.
- It acts as a barrier for carcinogenic and harmful particles.
- Superior protection and comfort thanks to 2 layers of lightweight, breathable fabric blending DuPont™ Aramid Fibres, Viscose FR®, Polyamide and Elastane plus an intermediate layer of DuPont™ Nomex® Nano Flex \* non woven fabric.
- With HeiQ Smart Temp cooling technology for a better comfort and reduction of heat exhaustion, fatigue and heat stroke risks.

## CERTIFICATIONS



EN 13911:2017



PROTECTION AGAINST FIRE FOR FIREFIGHTERS				
EN ISO 13911:2017, Protective clothing for firefighters				
	Flame Spread	Heat transfer (Flame)	Heat Transfer (Radiation)	Heat Resistance
Performance Levels (Laminated fabric)	Pass	HTI24 = 14,1s HTI24-12 = 5s	RHTI24 = 25,3s RHTI24-12 = 9,8s	Pass
Performance Levels (Non-Laminated fabric)	Pass	HTI24 = 12,3s HTI24-12 = 4,5s	RHTI24 = 22,8s RHTI24-12 = 9,1s	Pass

EN 1149-5:2018



PROTECTION AGAINST STATIC ELECTRICITY	
EN 1149-5:2018, Protective clothing - Electrostatic properties	
Performance Levels	Pass

This firehood is compatible with the following breathing masks and helmet:

- MASK with ref. FPS 7000, manufactured by Dräger Safety AG & Co.KGaa, Lübeck.
- MASK with ref. MSA 3S, manufactured by MSA Europe GmbH, Switzerland.
- MASK with ref. SARI ref. 5511680, manufactured by Scott Health & Safety Ltd, United Kingdom.



NFPA 1971-2018

THERMAL PROTECTIVE PERFORMANCE TEST	
NFPA 1971-2018, SECTION 8.10	
TPP Rating (after laundering)	
Performance Levels (Laminated fabric)	28.1
Performance Levels (Non-Laminated fabric)	25.6

TOTAL HEAT LOSS TEST	
NFPA 1971-2018, SECTION 8.33	
	Qt (W/m²)
Performance Levels	399.5

PARTICULATE BLOCKING TEST			
NFPA 1971-2018, SECTION 8.71			
	0,10 Microns	0,50 Microns	1,00 Microns
Performance Levels	>99 %	>99 %	>99 %

## KEY FEATURES



FIRE RESISTANT



ANTISTATIC



RESPIRATORY MASK COMPATIBLE



MOISTURE MANAGEMENT



COMFORT FIT FACE OPENING



HELMET COMPATIBLE



COOLING EFFECT



PARTICLE BARRIER



REDUCED RUSTLING NOISE

## DIMENSIONS



## FABRICS COMPOSITION

- Inner Layer/Outer Layer: 56% M-Aramid Nomex®, 31% Viscose Fr, 6% Polyamide, 3% P-Aramid Kevlar®, 2% Carbon Fiber P-140, 2%, Elastane.
- Middle Layer: 100% DuPont™ Nomex Nanoflex®



## PACKAGING



## WASHING MAINTENANCE SYMBOLS



**FIREFIGHTER PARTICULATE HOOD (LAMINATED FABRIC)**

<b>Mass per unit area:</b> EN 12127:1997	469 g/m <sup>2</sup>	± 5 %
<b>Air Permeability</b> EN ISO 9237:1995	72 mm/s	± 10 %
<b>Thermal Resistance (RCT):</b> EN ISO 11092:2014	0,0683 m <sup>2</sup> K/W	± 10 %
<b>Water Vapour Resistance (RET):</b> EN ISO 11092:2014	8,75 m <sup>2</sup> Pa/W	± 10 %
<b>Burst strength test:</b> NFPA 1971-2018, SECTION 8.13	282 N	± 10 %
<b>Bursting resistance (after 5 washes):</b> EN ISO 13938-1:1999	204 kPa	± 10 %
<b>Determination of dimensional change in domestic washing and drying:</b>		
EN ISO 5077:2008	LENGTHWISE ≤ ±3%	CROSSWISE ≤ ±3%
	Washing procedure 6N (Ta=60 ±3°C) according to ISO 6330:2012	
<b>Resistance to pilling:</b> ISO 12945-2:2020	3 - 4	3000 CYCLES
	Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".	
<b>Determination of the abrasion resistance of fabrics:</b>		
EN ISO 12947-2:2016	Testing pressure: 12 kPa	>100000 CYCLES Until the first yarn broken
<b>Fastness rates:</b>		
Colour fastness to domestic and commercial laundering: EN ISO 105-C06:2010		4 - 5 *
Colour fastness to perspiration (Alkaline & Acid): EN ISO 105-E04:2013	ALKALINE	4 - 5 *
	ACID	4 - 5 *
Colour fastness to rubbing (Dry & Wet): EN ISO 105-X12:2016	DRY	4 - 5 *
	WET	4 - 5 *
Colour fastness to sea water: EN ISO 105-E02:2013		4 - 5 *
Colour fastness to artificial light: EN ISO 105-B02:2014 Método 2		5**
* Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".		
** Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excellent"		

**FIREFIGHTER PARTICULATE HOOD (2 LAYER FABRIC)**

<b>Mass per unit area:</b> EN 12127:1997	414 g/m <sup>2</sup>	± 5 %
<b>Air Permeability</b> EN ISO 9237:1995	885 mm/s	± 10 %
<b>Thermal Resistance (RCT):</b> EN ISO 11092:2014	0,0734 m <sup>2</sup> K/W	± 10 %
<b>Water Vapour Resistance (RET):</b> EN ISO 11092:2014	8,47 m <sup>2</sup> Pa/W	± 10 %
<b>Burst strength test</b> NFPA 1971-2018, SECTION 8.13	231 N	± 10 %
<b>Bursting resistance (after 5 washes):</b> EN ISO 13938-1:1999	105 kPa	± 10 %
<b>Determination of dimensional change in domestic washing and drying:</b> EN ISO 5077:2008	LENGTHWISE ≤ ±3% CROSSWISE ≤ ±3% Washing procedure 6N (Ta=60 ±3°C) according to ISO 6330:2012	
<b>Resistance to pilling:</b> ISO 12945-2:2020	2	2000 CYCLES
Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".		
<b>Determination of the abrasion resistance of fabrics:</b> EN ISO 12947-2:2016	Testing pressure: 12 kPa	>100000 CYCLES Until the first yarn broken
<b>Fastness rates:</b>		
Colour fastness to domestic and commercial laundering: EN ISO 105-C06:2010		4 - 5 *
Colour fastness to perspiration (Alkaline & Acid): EN ISO 105-E04:2013	ALKALINE	4 - 5 *
	ACID	4 - 5 *
Colour fastness to rubbing (Dry & Wet): EN ISO 105-X12:2016	DRY	4 - 5 *
	WET	4 - 5 *
Colour fastness to sea water: EN ISO 105-E02:2013		4 - 5 *
Colour fastness to artificial light: EN ISO 105-B02:2014 Método 2		5**
* Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".		
** Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excellent"		