


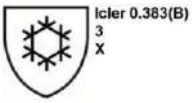




<b>ICESTORM</b> - parka			
<b>Description</b>	<p><b>EXTERNAL PART:</b></p> <p>11 external pockets in total, 3 internal pockets one of them with zip, adjustable and detachable hood, arm ergonomic design, thermo welded seams, 3M™ Scotchlite™ Reflective Material reflex inserts - 8910 Silver Fabric, loop for headset, adjustable cuff, mobile phone pocket with E-ward, CORDURA® elbow patch, adjustable waist with belt, YKK® zip</p> <p><b>INTERNAL PART:</b></p> <p>1 breast pocket with zip, 2 wide front pockets, 3M™ Scotchlite™ Reflective Material reflex inserts - 8910 Silver Fabric, detachable sleeves with zip, internal bottom zip, YKK® zip</p>		
			
<b>Maintenance</b>	<p>Maximum wash temperature: 30°C; Do not bleach; Do not dry clean; Do not dry in a tumble dryer; Do not iron.</p>		
			
			
<b>Item</b>		<p>V006-0-00 Khaki/black V006-0-01 Grey/black V006-0-02 Navy/black V006-0-03 Clay brown/black V006-0-04 Anthracite/black V006-0-05 Black/black</p>	
<b>Standards</b>		<p><b>EN ISO 13688:2013</b></p> <div>    </div> <p>(with trousers FROZEN) (only external part)</p>	
<b>Sizes</b>		44 – 64	

**SAFETY TECHNICAL SPECIFICATIONS**

	Test method	description	Cofra result	minimum requirement / range
<b>Background and colour insert fabric</b>	EN ISO 1833-1977, SECTIONE 10	Composition : polyester Polyurethane coated	100%	
	EN ISO 12127:1996	Weight per unit area	200 g/m <sup>2</sup>	
	EN ISO 13688:2013 4.2 (EN 1413)	The pH's determination from the watery extract	pH: 5.6	3,5≤PH≤9,5
	EN ISO 13688:2013 4.2 (EN 14362-1:2012)	Search of the aromatic and carcinogenic amines	Not recording	≤30 ppm
	EN ISO 13688:2013 5.3 (EN ISO 6630 / ISO5077)	Dimensional change to washing (4N/40°C)	warp: -0.5% weft: 0.0%	± 3 %
	ISO 105-X12	Colour fastness to rubbing	dry: 4-5 wet: 4-5	≥3

	ISO 105-C06	Colour fastness to Laundering at 60°C			
		Colour change	4-5		≥3
		Staining:			
		diacetate	4-5		
		cotton	4-5		
		nylon	4		
		polyester	4-5		
		acrylic	4-5		
		wool	4-5		
	ISO 105 E04	Colour fastness to perspiration	Acid	Alkaline	
		Colour change	4-5	4-5	≥3
		Staining:			
		diacetate	4-5	4-5	
		cotton	4-5	4-5	
		nylon	4-5	4-5	
		polyester	4-5	4-5	
		acrylic	4-5	4-5	
		wool	4-5	4-5	
	ISO 105-B02	Colour fastness to light -Test with a xenon arc lamp			
		Colour change	4		≥5
	EN 343:2003+A1:2007	Water penetration resistance - Wp [Pa]	>8000 Pa	CLASS 1	Wp ≥ 8000 Pa
	4.2	(before each pretreatment)		CLASS 2	no test required
	(EN 20811)			CLASS 3	no test required
	EN 343:2003+A1:2007	Water penetration resistance - Wp [Pa]	Class 3	CLASS 1	no test required
	4.2	(after each pretreatment)	Wp> 13000 Pa	CLASS 2	Wp ≥ 8.000 Pa
	(EN 20811)			CLASS 3	Wp ≥ 13.000 Pa
	EN 343:2003+A1:2007	Water vapour resistance	Class 3	CLASS 1	R <sub>et</sub> > 40
	4.3	R <sub>et</sub> [m <sup>2</sup> Pa/W]	R <sub>et</sub> = 10.6 [m <sup>2</sup> Pa/W]	CLASS 2	20 < R <sub>et</sub> < 40
	(EN 31092)			CLASS 3	R <sub>et</sub> <20
	EN 343:2003+A1:2007	Tensile strength	warp: 1419 N		>450 N
	4.4		weft: 1052 N		
	(EN ISO 1421)				
	EN 343:2003+A1:2007	Tear resistance of coated or laminated fabrics	warp: 252.78 N		>25 N
	4.5		weft: 196.52 N		
	(EN ISO 4674)				
<b>Abrasion resistant insert</b> <i>Dupont Cordura® fabric</i>	EN ISO 1833-1977, SECTIONE 10	Composition: nylon Cordura	100%		
		weave: plain 1/1	warp : 22 [yarn/cm] weft : 15 [yarn/cm]		
	ISO 3801	weight per unit area	322 g/m <sup>2</sup>		

	GB/T3921.3	Colour fastness to washes	4 – 5	
	ISO 5081	Tensile strength	warp: 2790 N weft: 3230 N	
	BS3424-7B	Tear resistance	warp: 455.5 N weft: 432.1 N	
	DIN 54021, ISO 105X12: 2002	Colour fastness to rubbing	dry: 4-5 wet: 4-5	
	ISO 63305A	Dimensional change	warp: -1.6 % weft: -0.8 %	
	ISO 4920	Repellent to the water	4	
	ISO 105-E04	Colour fastness to perspiration	4	
<b>Reflex</b> 3M™ Scotchlite™ 8910 Silver Fabric	EN ISO 20471:2013/A1:2016 6.1	Retro reflective performance requirements of new material	PASS	
	EN ISO 20471:2013/A1:2016 6.2	Requirements of retro reflective performance after tests for abrasion, flexion, folding at cold temperature, temperature variations, washing (50 cycles ) and rain influence.	PASS	$R' \geq 100 \text{ cd/(lx m}^2\text{)}$
<b>E-ward</b>	EN ISO 1833-1977, SECTIONE 10	Composition: PES/CO/MTF	65/33/2%	
	EN ISO 12127:1996	Weight per unit area	215 g/m <sup>2</sup>	
	MIL-Standard 285	Attenuation measurements for enclosures, electromagnetic shielding, for electronic test purposes	Reduction of 99,5% of the electromagnetic waves to the frequency of 200 MHz  Reduction of 99% of the electromagnetic waves to the frequency of 2000 MHz	
<b>Lining</b>		Composition: polyester	100%	
<b>Hood lining</b>		Composition: polyester Polyurethane coated	100%	
<b>Background fabric of inner garment</b>		Composition: nylon	100%	
<b>Padding</b>		Composition: polyester	100%	
		Weight per unit area	160 g/m <sup>2</sup>	

**ICESTORM**

EN 343:2003+A1:2007 4.2 (EN 20811)	Seams: Water penetration resistance Wp - [Pa]	>19613 Pa ( Class 3 )	CLASS 1 no test required CLASS 2 Wp ≥ 8.000 Pa CLASS 3 Wp ≥ 13.000 Pa
EN 343:2003+A1:2007 4.3 (EN 31092)	Water vapour resistance Ret [m <sup>2</sup> Pa/W]	Ret=25.8( Classe 2 )	CLASS 1 R <sub>et</sub> > 40 CLASS 2 20 < R <sub>et</sub> < 40 CLASS 3 R <sub>et</sub> <20
EN 343:2003+A1:2007 4.7 (EN ISO 13935-2)	Determination of maximum force to seam rupture using the grab method	270 N	≥ 225 N
EN 342:2017 6.3 (UNI EN ISO 15831)	Measurement of thermal insulation by means of a thermal manikin (after 5 cycles wash a 30°C)	I <sub>cler</sub> 0.383(B) m <sup>2</sup> K/W	

**Table B: resultant effective thermal insulation of clothing I<sub>cler</sub> and ambient temperature conditions for heat balance at different activity levels and duration of exposure**

thermic insulation I <sub>cler</sub> [m <sup>2</sup> K/W]	moving activity											
	75 W/m <sup>2</sup>		75 W/m <sup>2</sup>		light		light		medium		medium	
	air speed 0,4 m/s	air speed 3 m/s	air speed 0,4 m/s	air speed 3 m/s	air speed 0,4 m/s	air speed 3 m/s	air speed 0,4 m/s	air speed 3 m/s	air speed 0,4 m/s	air speed 3 m/s	air speed 0,4 m/s	air speed 3 m/s
0,265	13	0	19	7	3	-12	9	-3	-12	-28	-2	-16
0,310	10	-4	17	3	-2	-18	6	-8	-18	-36	-7	-22
0,383	5,4	-11,3	13,4	-2,5	-8,4	-27,1	0,5	-15,3	-28,1	-47,9	-15,2	-32,0
0,390	5	-12	13	-3	-9	-28	0	-16	-29	-49	-16	-33
0,470	0	-20	7	-9	-17	-38	-6	-24	-40	-60	-24	-43
0,500	-2,1	-22,6	5,7	-11,1	-20	-41	-8,1	-26,6	-43,8	-64,7	-27,4	-46,8
0,540	-5	-26	4	-14	-24	-45	-11	-30	-49	-71	-32	-52
0,620	-10	-32	0	-20	-31	-55	-17	-38	-60	-84	-40	-61

EN 342:2017 5.2 (UNI EN ISO 9237)	Determination of the permeability of fabrics to air	AP <1 mm/s Class 3	CLASS 1 2 3	AP (mm/s) AP >100 5<AP<100 AP<5
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