

TECHNICAL SHEET

FROZEN - padded trousers

Description

- 3M[™] SCOTCHLITE[™] Reflective Material reflex inserts - 8910 Silver Fabric,
- · adjustable waist,
- · bottom opening with zip,
- · double back pocket with flap,
- knee and leg ergonomic design,
- · knee patches,
- · reinforced leg end,
- right side pocket,
- · thermo welded,
- · wide back zipped pocket,
- YKK® zip



Maintenance

Maximum wash temperature: 30°C; Do not bleach; Do not dry clean; Do not dry in a tumble dryer; Do not iron.













V008-0-01 Grey/black

V008-0-02 Navy/black

VUUO-U-UZ INAVY/DIACK

V008-0-00 Khaki/black

V008-0-03 Clay brown/black V008-0-04 Anthracite/black

V008-0-05 Black/black

Standards EN ISO 13688:2013



Item

Icler 0.383(B) 3 X



OEKO-TEX ®
CONTICENCE IN TEXMILES
STANDARD 100

(with parka ICESTORM)

Sizes 44 – 64

SAFETY TECHNICAL SPECIFICATIONS

	Test method	description	Cofra result	minimum requirement / range
Background and colour insert fabric	EN ISO 1833-1977, SECTIONE 10	Composition : polyester Polyurethane coated	100%	
	EN ISO 12127:1996	Weight per unit area	200 g/m ²	
	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

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	ISO 105-C06	Colour fastness to Laundering at 60°C				
	100 100 000	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		
		Calaum factores to light Tast with a				
	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 242-2002 - A4-2007	Water penetration resistance -	Class 3		CL ASS 1	no test required
	EN 343:2003+A1:2007 4.2	Wp [Pa]	Wp> 13000) Pa		Wp ≥ 8.000 Pa
		(after each pretreatment)	110000	, . u		Wp ≥ 13.000 Pa
	(EN 20811)					,
	EN 343:2003+A1:2007	Water vapour resistance	Class 3		CLASS 1	R _{et} > 40
	4.3	R _{et} [m ² Pa/W]	$R_{et} = 10.6$ [m² Pa/Wl	CLASS 2	$20 < R_{et} < 40$
	(EN 31092)				CLASS 3	R _{et} <20
	(217 01002)					
	EN 343:2003+A1:2007	Tensile strength	warp: 1419	9 N	>	-450 N
	4.4		weft: 1052			
	(EN ISO 1421)					
	,					
	EN 343:2003+A1:2007	Tear resistance of coated or laminated	warp: 252.	78 N	:	>25 N
	4.5	fabrics	weft: 196.	52 N		
	(EN ISO 4674)					
	ENTIOO	Dates as floating	DAGG			
Reflex	EN ISO 20471:2013/A1:2016	Retro reflective performance requirements of new material	PASS			
3M [™] Scotchlite [™]	6.1					
8910 Silver						
Fabric	EN ISO	Requirements of retro reflective	PASS		R´≥1	00 cd/(lx m²)
	20471:2013/A1:2016	performance after tests for abrasion,				
	6.2	flexion, folding at cold temperature, temperature variations, washing (50				
		cycles) and rain influence.				
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ining				Compos	ition: pol	ester		100)%						
Padding				Composition: polyester					100%						
		Weight per unit area							160 g/m²						
FROZEN	EN 343:20	EN 343:2003+A1:2007 Seams: Water penetration resistance								>19613 Pa (Class 3) CLASS 1 no test required					
	4.2			Wp - [Pa]								CLASS	2 <i>Wp</i> ≥	: 8.000 Pa	
	(EN 2081	1)										CLASS	3 <i>Wp</i> ≥	13.000 Pa	
	EN 343:20	003+A	1:2007	Water vapour resistance				Ret	Ret=88.5(Classe 1)			CLASS	1	R _{et} > 40	
	4.3			R _{et} [m ² Pa/W]								CLASS 2	2 20	$< R_{et} < 40$	
	(EN 31092	2)							CLASS 3 Ret				R _{et} <20		
	EN 343:20	003+A	1:2007	Determination of maximum force to				270	270 N ≥ 225 N				N		
	4.7			seam rupture using the grab method				t							
	(EN ISO 1	3935-	2)												
	EN 342:20	017		Measurement of thermal insulation by I _{cler} 0.383(B) m ² K/W means of a thermal manikin											
	(UNI EN I	(UNI EN ISO 15831) (after 5 cycles wash a 30°C)													
	Table	Table B: resultant effective thermal insulation of clothing law and ambient temperature conditions for heat balance at different activity levels and duration of exposure													
	ther			moving activity											
	insulat	ion Ider	75.1	W/m² 75 W/m²			light 115 W/m ²		light 2 115 W/m ²		medium 170 W/m²		medium 170 W/m²		
	[m² k	(/W)		d 0,4 m/s		ed 3 m/s		d 0,4 m/s		ed 3 m/s		d 0,4 m/s		ed 3 m/s	
	0.0	CF.	8h	1h	8h	1h	8h	1h	8h	1h	8h	1h	8h	1h	
	0,2		13 10	0 -4	19 17	7	-2	-12 -18	9	-3 -8	-12 -18	-28 -36	-2 -7	-16 -22	
	0.3		5,4	-11,3	13,4	-2,5	-8,4	-27,1	0,5	-15,3	-28,1	-47,9	-15,2	-32,0	
	0.3		5	-12	13	-3	-9	-28	0	-16	-29	-49	-16	-33	
	0.4		-2,1	-20 -22,6	7 5,7	-9 -11,1	-17 -20	-38 -41	-6 -8,1	-24 -26,6	-40 -43,8	-60 -64,7	-24 -27,4	-43 -46,8	
	0.5		-5	-26	4	-14	-24	-45	-11	-30	-49	-71	-32	-52	
	0.6		-10	-32	0	-20	-31	-55	-17	-38	-60	-84	-40	-61	

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