COFRA BORN TO WORK

TECHNICAL SHEET

VAHRN – *padded jacket*

Description

- *3M™ Scotchlite™ Reflective Material* reflex inserts - 8906 Silver Fabric,
- central opening closed with zip and snap, internal and external double flap,
- elastic band and coulisse at waistline to enhance adherence of the garment to the body,
- hood with Thinsulate™ padding, internal mobile pocket protecting against E-WARD electromagnetic waves,
- neck with Thinsulate™ padding and internal fleece lining,
- pockets closed by YKK® zip with double slider and snaps.

Maintenance

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

Item	V162-0-02 Navy
Standards	**EN ISO 13688:2013** Icler 0.500(B) 3 X EN 342:2017 OEKO-TEX® CONFIDENCE IN TEXTILES STANDARD 100 Tested for harmful substances. www.oeko-tex.com/standard100
Sizes	S-4XL

SAFETY TECHNICAL SPECIFICATIONS

	Test method	*Description*	*Cofra result*	*Minimum requirement / range*
Background fabric	EN ISO 1833-1977, SECTIONE 10	Composition	100% Nylon Oxford 420 D	
	EN ISO 12127:1996	Weight per unit area	145 g/m²	
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording	*≤30 ppm*
	EN ISO 13688:2013 4.2 (EN ISO 3071)	The pH's determination from the watery extract	pH = 5.9	*3,5 ≤pH≤ 9,5*
	EN ISO 13688:2013 5.3 (ISO 5077)	Dimensional change to washing after 5 washes (30°C)	warp: -1.4% weft: -1.4%	*±3%*

	EN 342:2017 4.6.1 (EN ISO 4674-1)	Tear strength	warp: 129 N weft: 114 N		*>20 N*
	ISO 105 E04	Colour fastness to perspiration	Acidic	Alkaline	*1-5*
		Colour change	4-5	4-5	
		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-C06	Colour fastness to laundering at 40°C			*1-5*
		Colour change	4-5		
		Staining:			
		diacetate	4-5		
		cotton	4-5		
		nylon	4-5		
		polyester	4-5		
		acrylic	4-5		
		wool	4-5		
	ISO 105-X12	Colour fastness to rubbing	Dry: 4-5 Wet: 4-5		*1-5*
	ISO 105-B02	Colour fastness to light			
		Colour change:	5		*1-5*
	EN ISO 13934-1	Tensile strength	warp: 1600 N weft: 900 N		
Lining	EN ISO 1833-1977, SECTIONE 10	Composition	100% Polyester		
	EN ISO 12127:1996	Weight per unit area	55 g/m²		
Pile	EN ISO 1833-1977,SECTIONE 10	Composition	100% Polyester		
	EN ISO 12127:1996	Weight per unit area	280 g/m²		
Padding	EN ISO 1833-1977,SECTIONE 10	Composition	100% Polyester (Thinsulate®)		
	EN ISO 12127:1996	Weight per unit area	1 layer G150 1 layer G200 350 g/m²		

Reflex *retro reflective fabric* *D6110*	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 ISO 6330 at 60°C) and rain influence.	PASS	*R´ ≥100 cd/(lx m²)*
Vahrn+Dessel	EN 342:2017 6.3 (EN ISO 15831)	Measurement of thermal insulation by means of a thermal manikin	after 5 washes a 30°C I_{cler} 0.500 [m^2K/W]	

Table B: resultant effective thermal insulation of clothing I_{cler} and ambient temperature conditions for heat balance at different activity levels and duration of exposure

thermic insulation I_{cler}	moving activity											
	–		–		light		light		medium		medium	
	75 W/m²		75 W/m²		115 W/m²		115 W/m²		170 W/m²		170 W/m²	
[m² K/W]	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	
	8h	1h	8h	1h	8h	1h	8h	1h	8h	1h	8h	1h
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
0.390	5	–12	13	–3	–9	–28	0	–16	–29	–49	–16	–33
0.412	3,6	–14,2	11,4	–4,7	–11,2	–30,8	–1,7	–18,2	–32,0	–52,0	–18,2	–35,8
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 6.4 (EN ISO 9237)	Determination of the permeability of fabrics to air	after 5 washes a 30°C AP <1mm/s CLASS 3	*AP (mm/s)* — *CLASS* *AP>100* — *1* *5<AP<100* — *2* *AP<5* — *3*