

## **TECHNICAL SHEET**

ZIVAT -	– waistcoat			
Description	<ul> <li>1 internal mobile phone pocket,</li> <li>1 internal pocket with zip,</li> <li>2 pockets on the bottom with zip and with internal removable cartridge ,</li> <li>2 wide front pockets with zip,</li> <li>anti-abrasion inserts on the shoulders,</li> <li>central opening with double slider zip,</li> <li>D-Ring,</li> <li>net lining,</li> <li>quilted front supports,</li> <li>radio pocket on the breast,</li> <li>wide back waterproof pocket closed by zip.</li> </ul>			
Maintenance	Maximum wash temperature: 30 °C; Do not bleach; Dry clean with solvents on point F plus Tetrachloroethylene; Tumble drying possible drying at lower temperature; Do not iron.	ltem	V542-0-04 clay brown/orange V542-0-08 clay brown/brown	
		Standards:	EN ISO 13688:2013	
	$\boxed{307} \times \mathbb{P} \ \bigcirc \ \swarrow$	Sizes	S - 4XL	

## SAFETY TECHNICAL SPECIFICATIONS

	Test method	Test method Description Cofra result		Minimum requirement / range
Background fabric	EN ISO 1833-1977, SECTION 10	Composition:	100% polyester (300D) + COFRA-TEX membrane (TPU membrane Thermoplastic Polyurethane)	
	EN ISO 12127:1996	Fabric mass per unit area	200±5% g/m <sup>2</sup>	
	EN ISO 13688:2013 5.3 (ISO 5077)	Dimensional change (30°C)	warp: -0.2% weft: -0.1%	±3%
	ISO 105-X12	Colour fastness to rubbing Staining:	Dry: 4	1-5
	ISO 105-B02	Colour fastness to light Colour change	5	1-5
	ISO 105-C06	Colour fastness to Laundering at 40°C Colour change Staining:	4-5	1 - 5
		diacetate cotton nylon	4-5 4-5 4	
		polyester acrylic wool	4-5 4-5 4-5	

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	EN ISO 105 E04	Colour fastness to perspiration				
		Colour change	4-5	4-5		1 - 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 12947-2	Determination of the abrasion resistance of fabrics by the Martindale method	>50000 cycl	es		
	EN 343:2003+A1:2007 4.2	Water penetration resistance - Wp [Pa]	$Wp = 9123 \text{ mmH}_2O$		CLASS 1 CLASS 2	Wp ≥ 8000 Pa no test require
	(EN 20811)	(before each pretreatment)			CLASS 3	no test require
	EN 343:2003+A1:2007	Water penetration resistance -	Class 3		CLASS 1	no test require
	4.2	Wp [Pa]	Wp> 13000 Pa		CLASS 2	Wp ≥ 8.000 Pa
	(EN 20811)	(after each pretreatment)			CLASS 3	Wp ≥ 13.000 Pa
	EN 343:2003+A1:2007	Water vapour resistance	Class 3		CLASS 1	$R_{et} > 4$
	4.3	R <sub>et</sub> [m <sup>2</sup> Pa/W]	$R_{et} = 8.62 [m^2  Pa/W]$		CLASS 2	20 < R <sub>et</sub> < 4
	(EN 31092)				CLASS 3	R <sub>et</sub> <2
	EN 343:2003+A1:2007	Tensile strength	warp: 1300	N	>	⊳450 N
	4.4		weft: 1300	N		
	(ISO 1421)					
	EN 343:2003+A1:2007 4.5	Tear resistance of coated or laminated fabrics	warp: 67 N weft: 63 N		>25 N	
	(ISO 4674-1)					
Abrasion Resistant Fabric	EN ISO 1833-1977, SECTION 10	Composition:	COFRA-TE> (TPU memb			
	EN ISO 12127:1996	Fabric mass per unit area	230±5% g/m	2		
	EN ISO 13688:2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording		≤30 ppm	
			pH=6.8		3,5 ≤pH≤ 9,5	
	EN ISO 13688:2013 4.2 (ISO 3071)	The pH's determination from the watery extract	pH=6.8		0,0	
	4.2		pH=6.8 warp: -0.7% weft: -0.1%		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C)	warp: -0.7%		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C	warp: -0.7% weft: -0.1%		0,0	
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i>	warp: -0.7%		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i>	warp: -0.7% weft: -0.1% 4-5		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate	warp: -0.7% weft: -0.1% 4-5 4-5		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate cotton	warp: -0.7% weft: -0.1% 4-5 4-5 4-5		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate cotton nylon	warp: -0.7% weft: -0.1% 4-5 4-5 4-5 4-5		0,0	±3%
	4.2 (ISO 3071) EN ISO 13688:2013 5.3 (ISO 5077)	the watery extract Dimensional change (30°C) Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate cotton	warp: -0.7% weft: -0.1% 4-5 4-5 4-5		0,0	±3%

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	Colour fastness to dry cleaning				
	Colour change	4-5			1 - 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				1 - 5
	Staining:	4 - 5			
ISO 105-B02	Colour fastness to light				1 - 5
	Colour change	4			
EN ISO 105 E04	Colour fastness to perspiration				
LINIGO 103 L04		4-5	4-5		1 - 5
	Colour change Staining:	4-0	4-0		
	-	4 5	4 5		
	diacetate	4-5 4-5	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 12947-2	Determination of the abrasion resistance of fabrics by the Martindale method	>10000 cycl	es		
EN 343:2003+A1:2007 4.2	Water penetration resistance - Wp [Pa]	Wp > 13000	Pa	CLASS 1 CLASS 2	Wp ≥ 8000 P no test require
(EN 20811)	(before each pretreatment)			CLASS 2 CLASS 3	no test require
EN 343:2003+A1:2007	Water penetration resistance -	Class 3		CLASS 1	no test require
4.2	Wp [Pa]	Wp> 13000 Pa		CLASS 2	Wp ≥ 8.000 Pa
(EN 20811)	(after each pretreatment)			CLASS 3	Wp≥ 13.000 F
EN 343:2003+A1:2007	Water vapour resistance	Class 2		CLASS 1	R <sub>et</sub> > 4
4.3	R <sub>et</sub> [m <sup>2</sup> Pa/W]	R <sub>et</sub> = 29.8 [n	n <sup>2</sup> Pa/W]	CLASS 2	20 < R <sub>et</sub> < 4
(EN 31092)				CLASS 3	R <sub>et</sub> <2
EN 343:2003+A1:2007	Tensile strength	warp: 1773	N	>	450 N
4.4		weft: 1498	Ν		
(ISO 1421)					
EN 343:2003+A1:2007	Tear resistance of coated or laminated	warp: 204 N	J	>	>25 N
4.5	fabrics	weft: 210 N	1		
(ISO 4674-1)					
EN ISO 1833-1977,	Composition:	100% polyes	ster		

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Lining

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