

#### **TECHNICAL SHEET**

# NAMSOS – padded jacket Description 2 wide front pockets with velcro, . adjustable cuff with velcro, adjustable foldaway hood, . adjustable waist with coulisse, badge pocket loop, front opening with double slider zip, . internal pocket with zip, thermo welded seams. Maintenance Maximum washing temperature 30 °C; Do not bleach; Do not V543-0-03 yellow / navy ltem dry in a tumble dryer; Drying in the shade; Do not iron; Do not Standards : EN ISO 13688:2013 dry clean. 3 $\boxtimes \boxtimes \boxtimes \square \bowtie \boxtimes$ (25 WASHES) EN 343:2003+A1:2007 EN ISO 20471:2013/A1:2016 **OEKO-TEX**® WARNING: DO NOT IRON THE REFLEX INSERTS! STANDARD 100 ted for harmful sub-Sizes S – 4XL

#### SAFETY TECHNICAL SPECIFICATIONS

	Test method	description	Cofra result	Minimum requirement / range
Background fabric	EN ISO 1833-1977, SECTION 10	•	100% polyester coated polyurethane 300Dx300D	
	EN ISO 12127:1996	Fabric mass per unit area	175 g/mq	
	EN ISO 13688:2013 4.2 (ISO 3071)	Determination of pH of aqueous extract	pH=6.6	3,5 ≤pH≤ 9,5
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording	<i>≤30 ppm</i>

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EN ISO 20471:2013/A1:2016	<ul> <li>Chromaticity and luminance of new material</li> </ul>	x = 0.384 y=	0.538	co-ord x	co-ord y
5.1	matonal	$\beta_{min} = 1.12$		0.387	0.610
5.2	- Chromaticity and luminance after	x = 0.385 y=	0.535	0.356	0,494
7.5.1	Xenon test	$\beta_{min} = 1.10$		0.398	0,452
		x = 0.3877 y=	0.530	0.460	0,540
	- Chromaticity and luminance after 25	$\beta_{min} = 1.05$	0.000	Minimum Lum	
	washes cycles	<i>Pmm</i> = 1.00		β <sub>min</sub> :	> 0.7
		Chromaticity - EN ISO 20471:2013			
	0.65	0			
	0.60	0 -	1		
	0.55	0			<ul> <li>Yellow</li> </ul>
	>		∆ <sup>⊗</sup>	•	<ul> <li>After Xenon</li> <li>× As Received</li> </ul>
	0.50	0-			<ul> <li>As Receive</li> <li>After Washi</li> </ul>
	0.45	0	•		
	0.40		3.		
		0.3 0.35	0.4	0.45 0.5	
EN ISO 20471:2013/A1:2016	Colour fastness to rubbing	Dry:			RY:
5.3.1	Staining	5		Stain	ing 4
(ISO 105-X12)					
EN ISO 20471:2013/A1:2016	Colour fastness to perspiration		Alkaline		
5.3.2	Colour change	5	5		hange: 4
(ISO 105-E04)	Staining:			Stain	ing: 4
	diacetate		4		
	cotton	5	4-5		
	nylon	4-5	4		
	polyester	5	4-5		
	acrylic	5	4-5		
	wool	4-5	4-5		
EN ISO 20471:2013/A1:2016	Colour fastness to Laundering at 40°C				
5.3.3	Colour change	5			ange: 4-5
(ISO 105-C06)	Staining:			Stain	ing: 4
	diacetate	4-5			
	cotton	5			
	nylon	4			
	polyester	4-5			
	acrylic	5			
	wool	4-5			
EN ISO 20471:2013/A1:2016 5.4.1	Dimensional change to washing	warp: -0.5%		±3	8%
(ISO 5077)		weft: -0.0%			
EN ISO 20471:2013/A1:2016	Tensile strength of coated or laminated	warp: 1278 N		>10	DON
5.5.3	fabric	weft: 1144 N			
(ISO 1421, Method 1)					
EN ISO 20471:2013/A1:2016	Tear resistance of coated or laminated	warp: 85 N		>2	ON
5.5.3	fabrics	weft: 81 N			

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Non fluorescent fabric	EN ISO 13688:2013 4.2 (ISO 3071)	Determination of pH of aqueous extract	pH=6.8 Not recording		3,5 ≤pH≤ 9,5
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines			<i>≤30 ppm</i>
	EN ISO 20471:2013/A1:2016 5.3.1 (ISO 105-X12)	Colour fastness to rubbing Staining:	DRY: 5		DRY Staining: 4
	EN ISO 20471:2013/A1:2016 5.3.2 (ISO 105-E04)	Colour fastness to perspiration <i>Colour change</i> <i>Staining</i> diacetate cotton nylon polyester acrylic	Acidic 5 4-5 4-5 4-5 5 5	Alkaline 5 5 5 5 5 5 5	Staining: 4
	EN ISO 20471:2013/A1:2016 5.3.3 (ISO 105-C06)	wool Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining</i> diacetate cotton nylon polyester acrylic wool	5 5 4-5 4-5 4-5 4-5 4-5 4-5 4-5	5	Staining: 4
Reflex D 1002	EN ISO 20471:2013/A1:2016 6.1 EN ISO 20471:2013/A1:2016 6.2	Retro reflective performance requirements of new material Requirements of retro reflective performance after tests for abrasion, flexion, folding at cold temperature, temperature variations, washing (25 cycles ISO 6330 at 60°C) and rain influence.			R´≥ 100 cd/(lx m²)
Padding	EN ISO 1833-1977, SECTION 10	Composition	100% polyester		
	EN ISO 12127:1996	Fabric mass per unit area	160 g/mq		
Lining	EN ISO 1833-1977, SECTION 10	Composition	100% polyes	ter	
	EN ISO 12127:1996	Fabric mass per unit area	55 g/mq		

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NAMSOS	EN ISO 20471:2013/A1:2016 4.1 * At least (50±10)% of the minimum area of visible background material shall be on the front part of garments	Minimum required areas of visible material in m <sup>2</sup> Size S	Class 3 Background material 0.86 m <sup>2</sup> Background material front part 0.42 m <sub>2</sub> Background material back part 0.44 m <sub>2</sub> Retro reflective material 0.23 m <sup>2</sup> * Maximum areas for logos, lettering, labels, etc. 0.06 m <sup>2</sup>	Background material $CLASS 3 = 0.80m^2$ $CLASS 2 = 0.50m^2$ $CLASS 1 = 0.14m^2$ Retro reflective material $CLASS 3 = 0.20 m^2$ $CLASS 2 = 0.13 m^2$ $CLASS 1 = 0.10 m^2$	
	EN 343:2003+A1:2007 4.2 (EN 20811)	Water penetration resistance - Wp [Pa] (before each pretreatment)	Wp > 8000 Pa	CLASS 1 Wp ≥ 8000 Pa CLASS 2 no test required CLASS 3 no test required	
	EN 343:2003+A1:2007 4.2 (EN 20811)	Water penetration resistance - Wp [Pa] (after each pretreatment)	Class 3 Wp> 13000 Pa	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 R <sub>et</sub> [m <sup>2</sup> Pa/W]	Class 1 R <sub>et</sub> = 106.8 [m <sup>2</sup> Pa/W]	CLASS 1 $R_{et} > 40$ CLASS 2 $20 < R_{et} < 40$ CLASS 3 $R_{et} < 20$	
	EN 343:2003+A1:2007 4.7 (EN ISO 13935-2)	Determination of maximum force to seam rupture using the grab method	320N	225N	

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