

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. V543-0-02 orange / navy Item Maintenance Maximum washing temperature 30 °C; Do not bleach; Do not Standards : EN ISO 13688:2013 dry in a tumble dryer; Drying in the shade; Do not iron; Do not dry clean. 3 (25 WASHES) \boxtimes EN 343:2003+A1:2007 EN ISO 20471:2013/A1:2016 WARNING: DO NOT IRON THE REFLEX INSERTS! **OEKO-TEX**® GO/RT 3279 STANDARD 100 only for orange Tested for harmful substances ww.oeko-tex.com/standard10 Sizes S – 4XL

SAFETY TECHNICAL SPECIFICATIONS

	Test method	description	Cofra result	Minimum requirement / range
Background fabric	EN ISO 1833-1977, SECTION 10	Composition	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=6.9	3,5 ≤pH≤ 9,5
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recording	≤30 ppm

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EN ISO 20471:2013/A1:2016	- Chromaticity and luminance of new	x = 0.5	91 y= 0.364	co-ord x co-ord	
5.1	material	$\beta_{min} = 0$	0.55	0.610 0.39	
5.2	- Chromaticity and luminance after	x = 0.5	62 y= 0.371	0.535 0.37	
7.5.1	Xenon test	$\beta_{min} = 0$	0.58	0.570 0.34	
			91 y= 0.364	0.655 0.34	
	- Chromaticity and luminance after 25 washes cycles		-	Minimum Luminance F β _{min} > 0.4	
			Chromaticity - ISO 20471:2013		
	(0.400	enrenderen	Orange	
	(0.390 -		△ As Rec	
	(0.380 -		× After X	
	(0.370 -	×	◇ After Washin	
	>	0.360 -	▲		
	(0.350 -	\backslash	\backslash	
	(0.340 -			
	(0.330	· · · · ·		
		0.500	0.550 0.600 x	0.650 0.700	
Railway Group Standard	- Chromaticity and luminance before	x = 0.5	91 y= 0.364	co-ord x co-ord	
GO/RT3279	the test	$\beta_{min} = 0$	0.55	0.610 0.3	
A.2				0.560 0.38	
				0.585 0.35	
				0.640 0.34	
				Minimum Luminance F	
				$\beta_{min} > 0.4$	
EN ISO 20471:2013/A1:2016	Colour fastness to rubbing	Dry:		Dry:	
5.3.1	Staining	5		Staining 4	
(ISO 105-X12)					
EN ISO 20471:2013/A1:2016	Colour fastness to perspiration	Acidic	Alkaline		
5.3.2	Colour change	5	5	Colour change: 4	
(ISO 105-E04)	Staining:			Staining: 4	
	diacetate	5	5		
	cotton	5	5		
	nylon	4-5	4-5		
	polyester	5	5		
		5	5		
	acrylic	-	_		
	wool	5	5		
	wool Colour fastness to Laundering at 40°	C	5		
5.3.3	wool Colour fastness to Laundering at 40°0 <i>Colour change</i>		5	Colour change: 4-	
EN ISO 20471:2013/A1:2016 5.3.3 (ISO 105-C06)	wool Colour fastness to Laundering at 40°0 <i>Colour change</i> S <i>taining</i> :	C 5	5	Colour change: 4- Staining: 4	
5.3.3	wool Colour fastness to Laundering at 40°0 <i>Colour change</i> <i>Staining</i> : diacetate	C 5 4-5	5	-	
5.3.3	wool Colour fastness to Laundering at 40°0 <i>Colour change</i> S <i>taining</i> :	C 5	5	-	
5.3.3	wool Colour fastness to Laundering at 40°0 <i>Colour change</i> <i>Staining</i> : diacetate	C 5 4-5	5	-	
5.3.3	wool Colour fastness to Laundering at 40°0 <i>Colour change</i> <i>Staining</i> . diacetate cotton	C 5 4-5 5	5	-	
5.3.3	wool Colour fastness to Laundering at 40°C <i>Colour change</i> <i>Staining:</i> diacetate cotton nylon	C 5 4-5 5 4-5	5	-	

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	EN ISO 20471:2013/A1:2016 5.4.1 (ISO 5077)	Dimensional change to washing	warp: -0.5% weft: -0.0%		±3%
	EN ISO 20471:2013/A1:2016 5.5.3 (ISO 1421, Method 1)	Tensile strength of coated or laminated fabric	warp: 1278 weft: 1144		>100N
	EN ISO 20471:2013/A1:2016 5.5.3 (ISO 4674-1, Method A)	Tear resistance of coated or laminated fabrics	warp: 85 N weft: 81 N		>20N
Non fluorescent fabric	EN ISO 13688:2013 4.2 (ISO 3071)	Determination of <i>pH</i> of aqueous extract	<i>рН=</i> 6.8		3,5 ≤pH≤ 9,5
	EN ISO 13688 :2013 4.2 (EN 14362-1)	Search of the aromatic and carcinogenic amines	Not recordir	ng	≤30 ppm
	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	Colour fastness to perspiration	Acidic	Alkaline	
	(ISO 105-E04)	Colour change Staining	5	5	Staining: 4
		diacetate	4-5	5	
		cotton	4-5	5	
		nylon	4-5	5	
		polyester	5	5	
		acrylic	5	5	
		wool	5	5	
	EN ISO 20471:2013/A1:2016	Colour fastness to Laundering at 40°C			
	5.3.3	Colour change	5		
	(ISO 105-C06)	Staining	-		
		diacetate	4-5		Staining: 4
		cotton	4-5		
		nylon	4-5		
		polyester	4-5		
		acrylic	4-5		
		wool	4-5		
Reflex D 1002	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 (25 cycles ISO 6330 at 60°C) and rain influence.	PASS		R´≥100 cd/(lx m²)

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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% polyester		
	EN ISO 12127:1996	Fabric mass per unit area	55 g/mq		
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 ² Size S	Class 3 Background material 0.86 m ² Background material front part 0.42 m ₂ Background material back part 0.44 m ₂ Retro reflective material 0.23 m ² * Maximum areas for logos, lettering, labels, etc. 0.06 m ²	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 _{et} [m ² Pa/W]	Class 1 R _{et} = 106.8 [m ² 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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