



ORDER

№ A 186

Sofia, 28.04.2023

Pursuant to Art. 10, para 1, item 3 and Art. 30, para 1 of the Law on National Accreditation of Conformity Assessment Bodies and item 7 of BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 313/33 ЛИ/ПО/15.12.2022, report reg. № 313/33 ЛИ/3/В/02.03.2023 and statement of the Accreditation Commission, reg. № 313/33 ЛИ/ПО/4/В/18.04.2023, I hereby

EXTEND THE SCOPE OF ACCREDITATION

**of Defense Institute Professor Tsvetan Lazarov
Central Testing Laboratory of Logistic Properties**

Management and Laboratory address:
1592 Sofia, 2 Prof. Tsvetan Lazarov Blvd.

To perform testing of:

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
1.	TEXTILE		
1.1.	Yarn Yarns and threads	1.1.1. Quantitative composition *	RLNTP Annex №5, Section II: Regulation (EC) № 1007/2011, annex VIII, chapter 2 БДС EN ISO 1833-1
		- acetate / certain other fibers	RLNTP Method 1 (with acetone) Regulation (EC) № 1007/2011- method 1 (with acetone) БДС EN ISO 1833-3
		- certain protein fibers / certain other fibers	RLNTP Method 2 (with hypochlorite) Regulation (EC) № 1007/2011- method 2 (with hypochlorite) БДС EN ISO 1833-4
		- viscose, cupro or certain types of modal / cotton	RLNTP Method 3 (with formic acid and zinc chloride) Regulation (EC) № 1007/2011- method 3 (with formic acid and zinc chloride)

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
			БДС EN ISO 1833-6
		- polyamide, nylon / certain other fibers	RLNTP Method 4 (with formic acid) Regulation (EC) № 1007/2011- method 4 (with formic acid) БДС EN ISO 1833-7
		- acetate / certain other fibers	RLNTP Method 5 (with benzyl alcohol) Regulation (EC) № 1007/2011- method 5 (with benzyl alcohol) БДС EN ISO 1833-9
		- triacetate / certain other fibers	RLNTP Method 6 (with dichloromethane) Regulation (EC) № 1007/2011- method 6 (with dichloromethane) БДС EN ISO 1833-10
		- certain cellulose fibers / certain other fibers (polyester)	RLNTP Method 7 (with sulphuric acid) Regulation (EC) № 1007/2011- method 7 (with sulphuric acid) БДС EN ISO 1833-11
		- acrylics, certain modacrylics, certain chlorofibres / certain other fibers	RLNTP Method 8 (with dimethylformamide) Regulation (EC) № 1007/2011- method 8 (with dimethylformamide) БДС EN ISO 1833-12
		- acetate / certain other fibers	RLNTP Method 10 (with acetic acid) Regulation (EC) № 1007/2011- method 10 (with acetic acid) БДС EN ISO 1833-14
		- silk / certain other fibers	RLNTP Method 11 (with sulphuric acid) Regulation (EC) № 1007/2011- method 11 (with sulphuric acid) БДС EN ISO 1833-18
		- polypropylene fibers /certain other fibers	RLNTP Method 13 (with xylol) Regulation (EC) № 1007/2011- method 13 (with xylol) БДС EN ISO 1833-16
		- chlorofibers / certain other fibers	RLNTP Method 14 (with concentrated sulphuric acid) Regulation (EC) № 1007/2011- method 14 (with concentrated sulphuric acid) БДС EN ISO 1833-17
		- three-component fibre mixtures	RLNTP Annex №6: Methods based on Annex №5, Section II Regulation (EC) № 1007/2011, annex VIII, chapter 3, methods based on annex VIII, chapter 2

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
			БДС EN ISO 1833-2
		1.1.2 Linear density	БДС EN ISO 2060
		1.1.3 Breaking force	БДС EN ISO 2062
		1.1.4 Elongation at break	БДС EN ISO 2062
		1.1.5 Color fastness to laundering	БДС EN ISO 105-C06 БДС EN 20105-A02
		1.1.6 Color fastness to rubbing: - dry - wet	БДС EN ISO 105-X12 БДС EN 20105-A02
		1.1.7 Color fastness to water	БДС EN ISO 105-E01 БДС EN 20105-A02
		1.1.8 Color fastness to dry cleaning	БДС EN ISO 105-D01 БДС EN 20105-A02
1.2.	Fabrics	1.2.1. Quantitative composition *	RLNTP Annex №5, Section II: Regulation (EC) № 1007/2011, annex VIII, chapter 2 БДС EN ISO 1833-1
		- acetate / certain other fibers	RLNTP Method 1 (with acetone) Regulation (EC) № 1007/2011- method 1 (with acetone) БДС EN ISO 1833-3
		- certain protein fibers / certain other fibers	RLNTP Method 2 (with hypochlorite) Regulation (EC) № 1007/2011- method 2 (with hypochlorite) БДС EN ISO 1833-4
		- viscose, cupro or certain types of modal / cotton	RLNTP Method 3 (with formic acid and zinc chloride) Regulation (EC) № 1007/2011- method 3 (with formic acid and zinc chloride) БДС EN ISO 1833-6
		- polyamide, nylon / certain other fibers	RLNTP Method 4 (with formic acid) Regulation (EC) № 1007/2011- method 4 (with formic acid) БДС EN ISO 1833-7
		- acetate / certain other fibers	RLNTP Method 5 (with benzyl alcohol) Regulation (EC) № 1007/2011- method 5 (with benzyl alcohol) БДС EN ISO 1833-9
		- triacetate / certain other fibers	RLNTP Method 6 (with dichloromethane)

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
			Regulation (EC) № 1007/2011- method 6 (with dichloromethane) БДС EN ISO 1833-10
		- certain cellulose fibers / certain other fibers (polyester)	RLNTP Method 7 (with sulphuric acid) Regulation (EC) № 1007/2011- method 7 (with sulphuric acid) БДС EN ISO 1833-11
		- acrylics, certain modacrylics, certain chlorofibres / certain other fibers	RLNTP Method 8 (with dimethylformamide) Regulation (EC) № 1007/2011- method 8 (with dimethylformamide) БДС EN ISO 1833-12
		- acetate / certain other fibers	RLNTP Method 10 (with acetic acid) Regulation (EC) № 1007/2011- method 10 (with acetic acid) БДС EN ISO 1833-14
		- silk / certain other fibers	RLNTP Method 11 (with sulphuric acid) Regulation (EC) № 1007/2011- method 11 (with sulphuric acid) БДС EN ISO 1833-18
		- polypropylene fibers /certain other fibers	RLNTP Method 13 (with xylol) Regulation (EC) № 1007/2011- method 13 (with xylol) БДС EN ISO 1833-16
		- chlorofibers / certain other fibers	RLNTP Method 14 (with concentrated sulphuric acid) Regulation (EC) № 1007/2011- method 14 (with concentrated sulphuric acid) БДС EN ISO 1833-17
		- three-component fibre mixtures	RLNTP Annex №6: Methods based on Annex №5, Section II Regulation (EC) № 1007/2011, annex VIII, chapter 3, methods based on annex VIII, chapter 2 БДС EN ISO 1833-2
		1.2.2 Width and length	БДС EN 1773
		1.2.3 Number of threads per unit length - warp	БДС EN 1049-2

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		- weft	
		1.2.4 Maximum force - warp - weft	БДС EN ISO 13934-1
		1.2.5 Elongation at maximum force - warp - weft	БДС EN ISO 13934-1
		1.2.6 Tear force of test specimens - warp - weft	БДС EN ISO 13937-2 БДС EN ISO 13937-4
		1.2.7 Dimensional change induced by water immersion and drying: - warp - weft	БДС EN ISO 3759 БДС ISO 7771
		1.2.8 Dimensional change induced by laundering and drying: - warp - weft	БДС EN ISO 3759 БДС EN ISO 5077 БДС EN ISO 6330
		1.2.9 Abrasion resistance - specimen breakdown - mass loss - assessment of appearance change	БДС EN ISO 12947-1 БДС EN ISO 12947-1/AC БДС EN ISO 12947-2 БДС EN ISO 12947-3 БДС EN ISO 12947-3/AC БДС EN ISO 12947-4
		1.2.10 Propensity to surface pilling	БДС EN ISO 12945-2
		1.2.11 Mass per unit of area	БДС EN 12127
		1.2.12 Weave	БДС 12674
		1.2.13 pH of aqueous extract	БДС EN ISO 3071
		1.2.14 Formaldehyde content	БДС EN ISO 14184-1
		1.2.15 Color fastness to laundering	БДС EN ISO 105-C06 БДС EN 20105-A02
		1.2.16 Color fastness to rubbing: - dry - wet	БДС EN ISO 105-X12 БДС EN 20105-A02
		1.2.17 Color fastness to dry cleaning	БДС EN ISO 105-D01 БДС EN 20105-A02
		1.2.18 Color fastness to water	БДС EN ISO 105-E01 БДС EN 20105-A02
		1.2.19 Color fastness to sea water	БДС EN ISO 105-E02 БДС EN 20105-A02
		1.2.20 Color fastness to perspiration: - acidic	БДС EN ISO 105-E04 БДС EN 20105-A02

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		- alkaline	
		1.2.21 Color fastness to spotting: Acid	БДС EN ISO 105-E05 БДС EN 20105-A02
		1.2.22 Color fastness to spotting: Alkali	БДС EN ISO 105-E06 БДС EN 20105-A02
		1.2.23 Color fastness to hot pressing	БДС EN ISO 105-X11 БДС EN 20105-A02
		1.2.24 Resistance to water penetration	БДС EN ISO 811
		1.2.25 Resistance to surface wetting of fabrics	БДС EN ISO 4920
		1.2.26 Hygroscopicity /moisture absorption/	БДС 12006
		1.2.27 Capillarity	БДС 10298
		1.2.28. Angle of recovery from creasing - warp-front/front; back/back-weft-front/front; back/back	БДС EN ISO 2313-1
1.3.	Nonwovens	1.3.1. Quantitative composition *	RLNTP Annex №5, Section II: Regulation (EC) № 1007/2011, annex VIII, chapter 2 БДС EN ISO 1833-1
		- acetate / certain other fibers	RLNTP Method 1 (with acetone) Regulation (EC) № 1007/2011- method 1 (with acetone) БДС EN ISO 1833-3
		- certain protein fibers / certain other fibers	RLNTP Method 2 (with hypochlorite) Regulation (EC) № 1007/2011- method 2 (with hypochlorite) БДС EN ISO 1833-4
		- viscose, cupro or certain types of modal / cotton	RLNTP Method 3 (with formic acid and zinc chloride) Regulation (EC) № 1007/2011- method 3 (with formic acid and zinc chloride) БДС EN ISO 1833-6
		- polyamide, nylon / certain other fibers	RLNTP Method 4 (with formic acid) Regulation (EC) № 1007/2011- method 4 (with formic acid) БДС EN ISO 1833-7
		- acetate / certain other fibers	RLNTP Method 5 (with benzyl alcohol) Regulation (EC) № 1007/2011- method 5 (with benzyl alcohol)

Type of the scope: flexible for a part of the scope			
Nº	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
			БДC EN ISO 1833-9
		- triacetate / certain other fibers	RLNTP Method 6 (with dichloromethane) Regulation (EC) № 1007/2011- method 6 (with dichloromethane) БДC EN ISO 1833-10
		- certain cellulose fibers / certain other fibers (polyester)	RLNTP Method 7 (with sulphuric acid) Regulation (EC) № 1007/2011- method 7 (with sulphuric acid) БДC EN ISO 1833-11
		- acrylics, certain modacrylics, certain chlorofibers / certain other fibers	RLNTP Method 8 (with dimethylformamide) Regulation (EC) № 1007/2011- method 8 (with dimethylformamide) БДC EN ISO 1833-12
		- acetate / certain other fibers	RLNTP Method 10 (with acetic acid) Regulation (EC) № 1007/2011- method 10 (with acetic acid) БДC EN ISO 1833-14
		- silk / certain other fibers	RLNTP Method 11 (with sulphuric acid) Regulation (EC) № 1007/2011- method 11 (with sulphuric acid) БДC EN ISO 1833-18
		- polypropylene fibers /certain other fibers	RLNTP Method 13 (with xylol) Regulation (EC) № 1007/2011- method 13 (with xylol) БДC EN ISO 1833-16
		- chlorofibers / certain other fibers	RLNTP Method 14 (with concentrated sulphuric acid) Regulation (EC) № 1007/2011- method 14 (with concentrated sulphuric acid) БДC EN ISO 1833-17
		- three-component fibre mixtures	RLNTP Annex №6: Methods based on Annex №5, Section II Regulation (EC) № 1007/2011, annex VIII, chapter 3, methods based on annex VIII, chapter 2 БДC EN ISO 1833-2
		1.3.2 Mass per unit of area	БДC EN 29073-1
		1.3.3 pH of aqueous extract	БДC EN ISO 3071
		1.3.4 Formaldehyde content	БДC EN ISO 14184-1
1.4.	Knitted fabrics	1.4.1. Quantitative composition *	RLNTP Annex №5, Section II: Regulation (EC) № 1007/2011, annex VIII, chapter 2 БДC EN ISO 1833-1

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		- acetate / certain other fibers	RLNTP Method 1 (with acetone) Regulation (EC) № 1007/2011- method 1 (with acetone) БДC EN ISO 1833-3
		- certain protein fibers / certain other fibers	RLNTP Method 2 (with hypochlorite) Regulation (EC) № 1007/2011- method 2 (with hypochlorite) БДC EN ISO 1833-4
		- viscose, cupro or certain types of modal / cotton	RLNTP Method 3 (with formic acid and zinc chloride) Regulation (EC) № 1007/2011- method 3 (with formic acid and zinc chloride) БДC EN ISO 1833-6
		- polyamide, nylon / certain other fibers	RLNTP Method 4 (with formic acid) Regulation (EC) № 1007/2011- method 4 (with formic acid) БДC EN ISO 1833-7
		- acetate / certain other fibers	RLNTP Method 5 (with benzyl alcohol) Regulation (EC) № 1007/2011- method 5 (with benzyl alcohol) БДC EN ISO 1833-9
		- triacetate / certain other fibers	RLNTP Method 6 (with dichloromethane) Regulation (EC) № 1007/2011- method 6 (with dichloromethane) БДC EN ISO 1833-10
		- certain cellulose fibers / certain other fibers (polyester)	RLNTP Method 7 (with sulphuric acid) Regulation (EC) № 1007/2011- method 7 (with sulphuric acid) БДC EN ISO 1833-11
		- acrylics, certain modacrylics, certain chlorofibres / certain other fibers	RLNTP Method 8 (with dimethylformamide) Regulation (EC) № 1007/2011- method 8 (with dimethylformamide) БДC EN ISO 1833-12
		- acetate / certain other fibers	RLNTP Method 10 (with acetic acid) Regulation (EC) № 1007/2011- method 10 (with acetic acid) БДC EN ISO 1833-14
		- silk / certain other fibers	RLNTP Method 11 (with sulphuric acid) Regulation (EC) № 1007/2011- method 11 (with sulphuric acid) БДC EN ISO 1833-18
		- polypropylene fibers	RLNTP Method 13 (with xylol)

Type of the scope: flexible for a part of the scope			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		/certain other fibers	Regulation (EC) № 1007/2011- method 13 (with xylol) БДС EN ISO 1833-16
		- chlorofibers / certain other fibers	RLNTP Method 14 (with concentrated sulphuric acid) Regulation (EC) № 1007/2011- method 14 (with concentrated sulphuric acid) БДС EN ISO 1833-17
		- three-component fibre mixtures	RLNTP Annex №6: Methods based on Annex №5, Section II Regulation (EC) № 1007/2011, annex VIII, chapter 3, methods based on annex VIII, chapter 2 БДС EN ISO 1833-2
		1.4.2 Mass per unit of area	БДС EN 12127
		1.4.3 Pellet piercing strength	БДС 9585
		1.4.4 Dimensional change induced by water immersion and drying: - wales - courses	БДС EN ISO 3759 БДС ISO 7771
		1.4.5 Dimensional change induced by laundering and drying: - wales - courses	БДС EN ISO 3759 БДС EN ISO 5077 БДС EN ISO 6330
		1.4.6 Abrasion resistance - specimen breakdown - mass loss - assessment of appearance change	БДС EN ISO 12947-1 БДС EN ISO 12947-1/AC БДС EN ISO 12947-2 БДС EN ISO 12947-3 БДС EN ISO 12947-3/AC БДС EN ISO 12947-4
		1.4.7 Propensity to surface pilling	БДС EN ISO 12945-2
		1.4.8 pH of aqueous extract	БДС EN ISO 3071
		1.4.9 Formaldehyde content	БДС EN ISO 14184-1
		1.4.10 Number of stitches per unit of length and unit area - wales - courses	БДС EN 14971
		1.4.11 Color fastness to laundering	БДС EN ISO 105-C06 БДС EN 20105-A02
		1.4.12 Color fastness to rubbing: - dry - wet	БДС EN ISO 105-X12 БДС EN 20105-A02
		1.4.13 Color fastness to dry cleaning	БДС EN ISO 105-D01 БДС EN 20105-A02

Type of the scope: flexible for a part of the scope			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		1.4.14 Color fastness to water	БДС EN ISO 105-E01 БДС EN 20105-A02
		1.4.15 Color fastness to sea water	БДС EN ISO 105-E02 БДС EN 20105-A02
		1.4.16 Color fastness to perspiration: - acidic - alkaline	БДС EN ISO 105-E04 БДС EN 20105-A02
		1.4.17 Color fastness to hot pressing	БДС EN ISO 105-X11 БДС EN 20105-A02
1.5.	Finished products		
1.5.1.	Knitted products	1.5.1.1 Size designation	БДС 15409 БДС 13639
		1.5.1.2 Maximum force to seam rupture (seam strength)	БДС 13307
		1.5.1.3 Mass of a pair of sock articles	БДС 5512 cl. 2. 1.
1.5.2.	Sewing products	1.5.2.1 Size designation	БДС EN ISO 8559-1 БДС EN ISO 8559-2 БДС EN 13402-3 БДС EN 14
		1.5.2.2 Maximum force to seam rupture (seam strength)	БДС EN ISO 13935-1
		1.5.2.3 Maximum force to peeling of backing details (unsticking strength)	БДС 12469
1.5.3.	Passementerie	1.5.3.1. Quantitative composition *	RLNTP Annex №5, Section II: Regulation (EC) № 1007/2011, annex VIII, chapter 2 БДС EN ISO 1833-1
		- acetate / certain other fibers	RLNTP Method 1 (with acetone) Regulation (EC) № 1007/2011- method 1 (with acetone) БДС EN ISO 1833-3
		- certain protein fibers / certain other fibers	RLNTP Method 2 (with hypochlorite) Regulation (EC) № 1007/2011- method 2 (with hypochlorite) БДС EN ISO 1833-4
		- viscose, cupro or certain types of modal / cotton	RLNTP Method 3 (with formic acid and zinc chloride) Regulation (EC) № 1007/2011- method 3 (with formic acid and zinc chloride) БДС EN ISO 1833-6
		- polyamide, nylon / certain	RLNTP Method 4 (with formic

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		other fibers	acid) Regulation (EC) № 1007/2011- method 4 (with formic acid) БДC EN ISO 1833-7
		- acetate / certain other fibers	RLNTP Method 5 (with benzyl alcohol) Regulation (EC) № 1007/2011- method 5 (with benzyl alcohol) БДC EN ISO 1833-9
		- triacetate / certain other fibers	RLNTP Method 6 (with dichloromethane) Regulation (EC) № 1007/2011- method 6 (with dichloromethane) БДC EN ISO 1833-10
		- certain cellulose fibers / certain other fibers (polyester)	RLNTP Method 7 (with sulphuric acid) Regulation (EC) № 1007/2011- method 7 (with sulphuric acid) БДC EN ISO 1833-11
		- acrylics, certain modacrylics, certain chlorofibres / certain other fibers	RLNTP Method 8 (with dimethylformamide) Regulation (EC) № 1007/2011- method 8 (with dimethylformamide) БДC EN ISO 1833-12
		- acetate / certain other fibers	RLNTP Method 10 (with acetic acid) Regulation (EC) № 1007/2011- method 10 (with acetic acid) БДC EN ISO 1833-14
		- silk / certain other fibers	RLNTP Method 11 (with sulphuric acid) Regulation (EC) № 1007/2011- method 11 (with sulphuric acid) БДC EN ISO 1833-18
		- polypropylene fibers /certain other fibers	RLNTP Method 13 (with xylol) Regulation (EC) № 1007/2011- method 13 (with xylol) БДC EN ISO 1833-16
		- chlorofibers / certain other fibers	RLNTP Method 14 (with concentrated sulphuric acid) Regulation (EC) № 1007/2011- method 14 (with concentrated sulphuric acid) БДC EN ISO 1833-17
		- three-component fibre mixtures	RLNTP Annex №6: Methods based on Annex №5, Section II Regulation (EC) № 1007/2011, annex VIII, chapter 3, methods based on annex VIII, chapter 2 БДC EN ISO 1833-2
		1.5.3.2 Width and length	БДC EN 1773

Type of the scope: flexible for a part of the scope			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		1.5.3.3 Strength and elongation at break	БДС 12315
		1.5.3.4 Diameter	БДС 12315
		1.5.3.5 Linear mass	БДС 12315
		1.5.3.6 Color fastness to laundering	БДС EN ISO 105-C06 БДС EN 20105-A02
		1.5.3.7 Color fastness to rubbing: - dry - wet	БДС EN ISO 105-X12 БДС EN 20105-A02
		1.5.3.8 Color fastness to dry cleaning	БДС EN ISO 105-D01 БДС EN 20105-A02
		1.5.3.9 Color fastness to water	БДС EN ISO 105-E01 БДС EN 20105-A02
		1.5.3.10 Color fastness to perspiration: - acidic - alkaline	БДС EN ISO 105 E04 БДС EN 20105 A02
1.6.	COLOR		
1.6.1	Textile materials (fabrics, nonwovens, knitted fabrics, finished products, passementerie)	1.6.1.1. Spectral coefficient of reflection, R (from 250 nm to 2000 nm)	DIN 5036-3
		1.6.1.2. Color coordinates (L^* , a^* , b^* , C_{AB}^* , h_{AB} ; X , Y , Z ; x , y)	БДС EN ISO 105-J01
		1.6.1.3. CIELAB values, L^* , a^* , b^* , C_{ab}^* , h_{ab}	БДС EN ISO 105-J03 cl.3.1
		1.6.1.4. Values of ΔL^* , Δa^* , Δb^* , ΔC_{ab}^* , ΔH_{ab} , ΔE_{ab}	БДС EN ISO 105-J03 cl.3.2
		1.6.1.5 Color fastness for artificial light: Xenon arc lamp	БДС EN ISO 105-B02 БДС EN ISO 105-B04 БДС EN 20105-A02
1.7	Textile materials	1.7.1 Permeability to air	БДС EN ISO 9237
2.	LEATHER		
2.1	Flexible leather	2.1.1 Moisture	БДС EN ISO 4684
		2.1.2 Substances extractable with organic solvents	БДС EN ISO 4048 Method cl.8.2
		2.1.3 pH of aqueous extract	БДС EN ISO 4045
		2.1.4 Chromium(VI) content	БДС EN ISO 17075-1
		2.1.5 Water vapor permeability	БДС 6783 cl.8 БДС EN ISO 20344 cl. 6.6 БДС EN ISO 14268
		2.1.6 Coefficient of water vapor permeability	БДС EN ISO 20344 cl. 6.8
		2.1.7 Absorption of water vapor	БДС EN ISO 20344 cl. 6.7
		2.1.8 Resistance to damage on lasting: - cracking of the front layer - tearing point	БДС EN ISO 17693

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		2.1.9 Thickness	БДС EN ISO 2589
		2.1.10 Elongation at a specified load	БДС EN ISO 3376
		2.1.11 Tensile strength	БДС EN ISO 3376
		2.1.12 Elongation at break	БДС EN ISO 3376
		2.1.13 Tear load	БДС EN ISO 3377-1 БДС EN ISO 3377-2 БДС EN ISO 1769
		2.1.14 Maximum force to seam rupture	БДС 12789
		2.1.15 Time of penetration of the first water droplet	БДС EN ISO 5403-1
		2.1.16 Water absorption	БДС EN ISO 5403-1 БДС EN ISO 20344 cl. 6.13
		2.1.17 Water permeability	БДС EN ISO 5403-1 БДС EN ISO 20344 cl. 6.13
		2.1.18 Flex resistance	БДС EN ISO 5402-1 БДС EN ISO 17694
		2.1.19 Color fastness to cycles of to-and-fro rubbing	БДС EN ISO 11640 БДС EN ISO 17700
		2.1.20 Color fastness to water spotting	БДС EN ISO 15700
2.2	Heavy leather	2.2.1 Moisture	БДС EN ISO 4684
		2.2.2 Substances extractable with organic solvents	БДС EN ISO 4048 Method cl.8.2
		2.2.3 Thickness	БДС EN ISO 2589
		2.2.4 Elongation at a specified load	БДС EN ISO 3376
		2.2.5 Tensile strength	БДС EN ISO 3376
		2.2.6 Elongation at break	БДС EN ISO 3376
		2.2.7 Color fastness to cycles of to-and-fro rubbing	БДС EN ISO 11640
		2.2.8 Chromium(VI) content	БДС EN ISO 17075-1
		2.2.9 Maximum force to seam rupture	БДС 12789
		2.2.10 pH of aqueous extract	БДС EN ISO 4045
2.3	Shoes (leather, textile, textile with coating and combinations thereof)		
2.3.1	Whole shoe	2.3.1.1 Resistance to separation upper/outsole: - adhesive method; - adhesive-sewing method; - direct molding method.	БДС EN ISO 20344 cl. 5.2 БДС EN ISO 17708 БДС 10446 cl.2 БДС EN ISO 20344 cl. 5.2 БДС EN ISO 17708
		2.3.1.2 Antistatic properties	БДС EN ISO 20344 cl. 5.13
		2.3.1.3 Water resistance of whole shoe	VALMI – 01/2019 БДС EN ISO 20344 cl. 5.19
		2.3.1.4 Seam strength	БДС EN ISO 17697 Method B
		2.3.1.5 Slip resistance	БДС EN ISO 20344 cl. 5.14 БДС EN ISO 13287

Type of the scope: *flexible for a part of the scope*

№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
2.3.2	Upper	2.3.2.1 Tear strength (resistance)	БДС EN ISO 3377-1 БДС EN ISO 3377-2 БДС EN ISO 17696
		2.3.2.2 Flex resistance	БДС EN ISO 17694
		2.3.2.3 Time of penetration of the first water droplet	БДС EN ISO 5403-1
		2.3.2.4 Water absorption	БДС EN ISO 20344 cl.6.13 БДС EN ISO 5403-1
		2.3.2.5 Water permeability	БДС EN ISO 20344 cl.6.13 БДС EN ISO 5403-1
		2.3.2.6 Water vapor permeability	БДС 6783 cl.8 БДС EN ISO 20344 cl. 6.6 БДС EN ISO 14268
		2.3.2.7 Coefficient of water vapor permeability	БДС EN ISO 20344 cl. 6.8
		2.3.2.8 pH of aqueous extract	БДС EN ISO 4045
		2.3.2.9 Chromium(VI) content	БДС EN ISO 17075-1
		2.3.2.10 Resistance to damage on lasting: - cracking of the front layer - tearing point	БДС EN ISO 17693
		2.3.2.11 Tensile strength	БДС EN ISO 3376
		2.3.2.12 Elongation at break	БДС EN ISO 17706
		2.3.2.13 Thickness	БДС EN ISO 2589
		2.3.2.14 Elongation at a specified load	БДС EN ISO 3376
		2.3.2.15 Color fastness to cycles of to-and-fro rubbing	БДС EN ISO 11640 БДС EN ISO 17700
		2.3.2.16 Height of upper	БДС EN ISO 20344 cl.6.2
2.3.3	Lining	2.3.3.1 pH of aqueous extract	БДС EN ISO 4045
		2.3.3.2 Chromium(VI) content	БДС EN ISO 17075-1
		2.3.3.3 Water vapor permeability	БДС 6783 cl.8 БДС EN ISO 20344 cl. 6.6 БДС EN ISO 14268
		2.3.3.4 Coefficient of water vapor permeability	БДС EN ISO 20344 cl. 6.8
		2.3.3.5 Elongation at a specified load	БДС EN ISO 3376
		2.3.3.6 Tensile strength	БДС EN ISO 3376
		2.3.3.7 Color fastness to cycles of to-and-fro rubbing	БДС EN ISO 11640 БДС EN ISO 17700
		2.3.3.8 Tear strength (resistance)	БДС EN ISO 3377-1 БДС EN ISO 3377-2 БДС EN ISO 17696
2.3.4	Tongue	2.3.4.1 Tear strength	БДС EN ISO 3377-1

Type of the scope: flexible for a part of the scope			
Nº	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		(resistance)	БДС EN ISO 3377-2 БДС EN ISO 17696
		2.3.4.2 pH of aqueous extract	БДС EN ISO 4045
		2.3.4.3 Chromium(VI) content	БДС EN ISO 17075-1
2.3.5	Insole	2.3.5.1 Thickness	БДС EN ISO 2589 БДС EN ISO 20344 cl.7.1
		2.3.5.2 Water absorption	БДС EN ISO 22649 Method A
		2.3.5.3 Water desorption	БДС EN ISO 22649 Method A
		2.3.5.4 Abrasion resistance	БДС EN ISO 20344 cl.7.3 БДС EN 12747
2.3.6	Outsole	2.3.6.1 Tread surface	БДС EN ISO 20344 cl.8.2
		2.3.6.2 Outsole thickness (excluding the tread)	БДС EN ISO 20344 cl.8.2
		2.3.6.3 Tread height	БДС EN ISO 20344 cl.8.2
		2.3.6.4 Abrasion resistance	БДС EN 12770 БДС ISO 4649
		2.3.6.5 Flexing resistance: - cut increase after 30 000 cycles - emergence of cracks	БДС EN ISO 20344 cl.8.6 БДС EN ISO 17707 cl.7
		2.3.6.6 Shore hardness A	БДС ISO 48-4
		2.3.6.7 Density of vulcanized or thermoplastic rubber	БДС ISO 2781 Method A
2.4.	Leather clothing		
2.4.1	Use-surface leather	2.4.1.1 Moisture	БДС EN ISO 4684
		2.4.1.2 Substances extractable with organic solvents	БДС EN ISO 4048 Method cl.8.2
		2.4.1.3 pH of aqueous extract	БДС EN ISO 4045
		2.4.1.4 Chromium(VI) content	БДС EN ISO 17075-1
		2.4.1.5 Time of penetration of the first water droplet	БДС EN ISO 5403-1
		2.4.1.6 Water absorption	БДС EN ISO 5403-1 БДС EN ISO 20344 cl.6.13
		2.4.1.7 Water permeability	БДС EN ISO 5403-1 БДС EN ISO 20344 cl.6.13
		2.4.1.8 Thickness	БДС EN ISO 2589
		2.4.1.9 Tensile strength	БДС EN ISO 3376
		2.4.1.10 Elongation at a specified load	БДС EN ISO 3376
		2.4.1.11 Maximum force to seam rupture	БДС 12789
		2.4.1.12 Color fastness to	БДС EN ISO 11640

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		cycles of to-and-fro rubbing	
		2.4.1.13 Color fastness to water spotting	БДС EN ISO 15700
		2.4.1.14 Tear strength (resistance)	БДС EN ISO 3377-1 БДС EN ISO 3377-2
2.4.2	Fur	2.4.2.1 pH of aqueous extract	БДС EN ISO 4045
		2.4.2.2 Chromium(VI) content	БДС EN ISO 17075-1
		2.4.2.3 Tear strength (resistance)	БДС EN ISO 3377-1 БДС EN ISO 3377-2
2.4.3	Finished product	Seam strength	БДС EN 13594 Annex C
2.5	Leather gloves		
2.5.1	Use-surface leather	2.5.1.1 Moisture	БДС EN ISO 4684
		2.5.1.2 Substances extractable with organic solvents	БДС EN ISO 4048 Method cl.8.2
		2.5.1.3. pH of aqueous extract	БДС EN ISO 4045
		2.5.1.4 Chromium(VI) content	БДС EN ISO 17075-1
		2.5.1.5 Water vapor permeability	БДС 6783 cl.8 БДС EN ISO 20344 cl. 6.6 БДС EN ISO 14268
		2.5.1.6 Coefficient of water vapor permeability	БДС EN ISO 20344 pt 6.8
		2.5.1.7 Water vapor absorption	БДС EN ISO 20344 pt 6.7
		2.5.1.8 Resistance to water penetration	БДС EN ISO 5403-1
		2.5.1.9 Water absorption	БДС EN ISO 5403-1 БДС EN ISO 20344 cl.6.13
		2.5.1.10 Water permeability	БДС EN ISO 5403-1 БДС EN ISO 20344 cl.6.13
		2.5.1.11 Tear strength (resistance)	БДС EN ISO 3377-1 БДС EN ISO 3377-2
		2.5.1.12 Thickness	БДС EN ISO 2589
		2.5.1.13 Elongation at a specified load	БДС EN ISO 3376
		2.5.1.14 Tensile strength	БДС EN ISO 3376
		2.5.1.15 Maximum force to seam rupture	БДС 12789
		2.5.1.16 Color fastness to cycles of to-and-fro rubbing	БДС EN ISO 11640
		2.5.1.17 Color fastness to water spotting	БДС EN ISO 15700
2.5.2	Finished product	2.5.2.1 Palm size	БДС EN ISO 21420

Type of the scope: <i>flexible for a part of the scope</i>			
№	Tested products	Type of test/characteristic	Test methods (standard/ validated method)
1	2	3	4
		2.5.2.2 Glove size	БДС EN ISO 21420
		2.5.2.3 Seam strength	БДС EN 13594 Annex C
2.6	Textile, coated textile	2.6.1 Tear strength (resistance)	БДС EN ISO 4674-1 Method B
		2.6.2 Tensile strength and elongation at break	БДС EN ISO 1421 Method 1
		2.6.3 Water vapor permeability	БДС EN ISO 20344 cl.6.6 БДС EN ISO 14268
		2.6.4 Water vapor coefficient	БДС EN ISO 20344 cl.6.8
		2.6.5 Abrasion resistance	БДС EN ISO 20344 cl.6.12
3.	SLIDE FASTENERS (ZIPS)	3.1 Lateral strength of slide fastener	БДС EN 16732 Annex G
		3.2 Strength of open-end slide fastener box	БДС EN 16732 Annex D
		3.3 Strength of closed end	БДС EN 16732 Annex C
		3.4 Lateral strength open-end attachment	БДС EN 16732 Annex H
		3.5 Strength of slider locking device	БДС EN 16732 Annex I

Notes:

* Quantitative composition is a characteristic of % content of 48 textile fibers (Annex 1 to Article 4, 14 and &1, item 2) in binary and ternary textile mixtures and combinations thereof (Section III, Table with examples of typical ternary fiber mixtures), according to the Regulation on labelling and naming of textile products (RLNTP)*.

** RLNTP repealed standard without replacement.

***Flexible scope:** *Implementing a new version of standards/documents or standards / documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by laboratory.*

References:

1. ** RLNTP – Regulation on labelling and naming of textile products (Decree of the Council of Ministers 114/2006, SG № 44/2006, amended in SG № 31/20.04.2012)
2. Regulation (EC) № 1007/2011 - Regulation of the European Parliament and of the Council (Labeling of textile fiber names and marking of textile products with regard to their fiber composition)

Fixed scope reference:

VALMI-01/2019 – Methods of testing the water impermeability of complete footwear.

I HEREBY ORDER

To issue the certificate of accreditation reg. № 33 ЛИ/28.04.2023, valid until 26.05.2024 and this order enclosed as an integral part of it.

The certificate of accreditation with the enclosure should be obtained from Manager of Defense Institute Professor Tsvetan Lazarov, Sofia, the Head of Central Testing Laboratory of Logistic Properties of Defense Institute Professor Tsvetan Lazarov, Sofia or other authorized person in the office of EA BAS.

Upon receipt of the certificate issued and enclosure, the accredited person is obliged to return to EA BAS the originals of certificate of accreditation reg. № 33 ЛИ/19.04.2022 valid until 26.05.2024 and its enclosure, EA BAS order reg. № A 268/26.05.2022.

This order shall be notified to Defense Institute Professor Tsvetan Lazarov, Sofia within 3 (three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

