

## Scope of Accreditation

**Accreditation body:** VUTCH s.r.o.

Rybníky 954/10, 011 68 Žilina

**Organizational unit performing the activities of the accredited body:**

Testing laboratories

**Place of performance of the accredited body:**

Rybníky 954/10, 011 68 Žilina

**Identification number of the accredited body:** 829/S-068

### Laboratory with fixed scope

Item	Test object		Introduced method		Other specifications (scope, uncertainty, purpose, modification, validation, opinions, interpretations, etc.)
	Object / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Designation	
1	textiles, fibres textile accessories  paper, cardboard plastics	Content of formaldehyde	spectrophotometry	STN EN ISO 14184-1 OEKO-TEX Standard 201 M-8  STN EN 1541 STN EN 645 STN EN 647	2)
2	textiles, fibres textile accessories  leather, leather	<b>proof of arylamines:</b> aniline; o-toluidine; o-anisidine; 4-chloroanilin; p-cresidine; 2,4,5-trimethyl-aniline; 4-chloro-o-toluidine; 2,4-diaminotoluene; 2,4-diaminoanisol; 2-naphthylamine; 4-aminobiphenyl; 4,4-diaminodiphenylmethane; 4,4-oxydianiline; benzidine; 3,3-dimethyl-benzidine; 4,4-thiodianiline; 3,3-o-dianisidine; 3,3-dichloro-benzidine; 4,4-methylenebis(-2-chloroaniline); 4-aminoazobenzene; 2,4-xylidine; 2,6-xylidine; 1,4-phenylen diamine; 4,4-methylene-di(o-toluidine);	gas chromatography GC/MS	STN EN ISO 14362-1, 3 OEKO-TEX Standard 201 M-3 OEKO-TEX Standard 201 M-19  STN EN ISO 17234-1,2  (IPS 31583814/117/273)	
3	textiles, fibres textile haberdashery	<b>Content of chloro-organic carriers:</b> monochlorobenzene; dichlorobenzenes; trichlorobenzenes; tetrachlorobenzenes; pentachlorobenzenes; hexachlorobenzene; monochlórtoluény; dichlorotoluenes; trichlorotoluenes; tetrachlorotoluenes; pentachlorotoluene;	gas chromatography GC/MS	OEKO-TEX Standard 201 M-2 & ML-2  (IPS 31583814/117/273)	

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4	textiles, fibres textile haberdashery	<b>Content of phenols:</b> monochlorophenols, dichlorophenols, trichlorophenols, tetrachlorophenols, pentachlorophenol, orthophenylphenol	gas chromatography GC/MS	OEKO-TEX Standard 201 M-7  (IPS 31583814/117/273)	
5	textiles, fibres plastics	<b>phthalate, TCEP and siloxane content:</b> Dibutyl phthalate (DBP); Diisobutyl phthalate (DIBP); Di-(2-ethyl-hexyl)phthalate (DEHP); Di-n-octyl phthalate (DNOP); Benzyl Butyl Phthalate (BBP); Di-isononyl phthalate (DINP); Di-isodecyl phthalate (DIDP); Diisoheptyl phthalate (DIHP); Di-undecyl phthalate (DUP); Di-n-nonyl phthalate (DNP); Di-n-hexyl phthalate (DHP); Di(2-methoxyethyl) phthalate (DMEP); Di-pentyl phthalate (DPP); Di-isopentyl phthalate (DIPP); Di-cyclohexyl phthalate (DCHP); Di-ethyl phthalate (DEP); Di-n-propyl phthalate (DPrP); Di-n-pentyl isopentyl phthalate (NPIPP); Di-isohexyl phthalate (DIHxP); Di-isooctyl phthalate (DIOP); Dimethyl phthalate (DMP); Siloxanes; Tris (2-chloroethyl) phosphate (TCEP);	gas chromatography GC/MS	OEKO-TEX Standard 201 M-18 & ML-18 EN ISO 14389  (IPS 31583814/117/273)	CPSC-CH-C1001-09.3 CPSC-CH-C1001-09.4  2)
6	textiles, fibres textile haberdashery  toys	<b>organotin compounds:</b> Dibutyltin (DBT) Tributyltin (TBT) Dioctyltin (DOT) Triphenyltin (TPhT) Tripropyltin (TPrT) Dimethyltin (DMT) Diphenyltin (DPhT) Monomethyltin (MMT) Dipropyltin (DPrT) Monobutyltin (MBT) Monooctyltin (MOT) Monophenyltin (MPhT) Tetrabutyltin (TeBT) Tetraethyltin (TeET) Tricyclohexyltin (TCyHT) Trimethyltin (TMT) Trioctyltin (TOT)	gas chromatography GC/MS	OEKO-TEX Standard 201 M-17 & ML-17  STN EN 71-3 + A1  {IPS 31583814/117/273)	
7	textiles, fibres textile haberdashery	<b>polycyclic aromatic hydrocarbons (PAHs):</b> Naphthalene Acenaphthylene Acenaphthene Phenanthrene Anthracene	gas chromatography GC/MS	OEKO-TEX Standard 201 M-23 & ML-23  (IPS 31583814/117/273)	

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7	textiles, fibres textile haberdashery	Fluorene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-c,d)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Dibenzo(a,e)pyrene Benzo(j)fluoranthene Benzo(e)pyrene Cyclopenta(c,d)pyrene Dibenzo(a,h)pyrene Dibenzo(a,l)pyrene Dibenzo(a,i)pyrene 1-Methylpyrene	gas chromatography GC/MS	OEKO-TEX Standard 201 M-23 & ML-23  (IPS 31583814/117/273)	
8	textiles, fibres textile haberdashery	Dimethyl fumarate DMFu	gas chromatography GC/MS	OEKO-TEX Standard 201 M-27 & ML-27 (IPS 31583814/117/273)	
9	textiles, fibres	fiber content, material composition	gravimetry	STN EN ISO 1833-1 to 22, 24, 25, 26  Hladík et al. Textile fibres	3)
10	textiles, fibres textile haberdashery  detergents, cleaning agents  water <sup>1</sup>	pH	potentiometry	STN EN ISO 3071 OEKO-TEX Standard 201 M-1, ML-1 STN EN ISO 4045  STN EN 1262  STN EN ISO 10523	
11	textiles, fibres textile haberdashery  toys  leather, skins and hides	hexavalent chromium content	spectrophotometry	IPS 31583814/109/80 (STN ISO 11083) OEKO-TEX Standard 201 M-12, OEKO-TEX Standard 201 M-10 & ML-10  STN EN 71-3 + A1  STN EN ISO 17075-1 STN EN ISO 21420	
12	textiles, fibres, textile haberdashery	<b>Metals:</b> Antimony, Sb	atomic absorption spectrometry GT-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN EN ISO 15586, STN EN 16711-2-nova)	2)
	textiles, fibres, textile haberdashery	arsenic, As		OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN EN ISO 15586, STN EN 16711-2-nova) OEKO-TEX standard 201 M-21 & ML-21	2)
	textile, fibres, textile haberdashery	chromium, Cr		OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN EN ISO 15586, STN EN 16711-2)	2)

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12	textiles, fibres, textile haberdashery,  costume jewellery, metal materials	cadmium, Cd	atomic absorption spectrometry GT-AAS F-AAS	OEKO-TEX Standard 201 M-10 & ML-10, IPS 31583814/88/80 (STN EN ISO 15586, STN EN 16711-2) OEKO-TEX Standard 201 M-21 & ML-21 IPS 31583814/88/80 (STN ISO 8288, STN EN 13657)	2), 4)
	textile, fibres, textile haberdashery	Cobalt, Co	atomic absorption spectrometry F-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN ISO 8288, , STN EN 16711-2)	
	textile, fibres, textile haberdashery	manganese, Mn		OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN 75 7489)	2)
	textile, fibres, textile haberdashery	Copper, Cu	atomic absorption spectrometry F-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN EN ISO 15586 STN ISO 8288, STN EN 16711-2)	2)
	textile, fibres, textile haberdashery,  costume jewellery	Nickel, Ni	atomic absorption spectrometry F-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN EN ISO 15586 STN ISO 8288, STN EN 16711-2)  STN EN 1811 STN EN 12472	2), 4)
	textile, fibres, textile haberdashery  metal materials	Lead, Pb	atomic absorption spectrometry GT-AAS F-AAS	OEKO-TEX Standard 201 M-10 & ML-10, IPS 31583814/88/80 (STN EN ISO 15586, STN ISO 8288, STN EN 16711-2)  OEKO-TEX Standard 201 M-21 & ML-21 IPS 31583814/88/80 (STN ISO 8288, STN EN 13657)	2), 4)  CPSC-CH-E1001-08; -08.1*; -08.2*; -08.3* CPSC-CH-E1002-08*; -08.2*; -08.3* CPSC-CH-E1003-09; -09.1*
	textiles, fibres, textile haberdashery  Non-textile accessories (metallic and non-metallic)  toys	Mercury, Hg	atomic absorption spectrometry AMA	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (AMA 254) OEKO-TEX Standard 201 M-21 & ML-21  OEKO-TEX Standard 201 M-21 & ML-21  STN EN 71-3 A1	2)

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12	Textiles in any form (fibres, yarns, fabrics, finished products), haberdashery	zinc, Zn	atomic absorption spectrometry F-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN ISO 8288)	2)
	Textiles in any form (fibres, yarns, fabrics, finished products), haberdashery	Barium Ba	atomic absorption spectrometry F-AAS	OEKO-TEX Standard 201 M-10 & ML-10 IPS 31583814/88/80 (STN 75 7487)	
13	Textiles	oil repellency	visual assessment	STN EN ISO 14419	
14	textiles, fibres textile haberdashery	<b>colour fastness:</b> to washing, to dry cleaning, to water, to perspiration, to bleaching, to dry heat, to organic solvents, to ironing, to rubbing.	visual assessment: determination of color change and staining according to the grey scale, determination of colour	STN EN ISO 105-A01 STN EN 20105-A02, STN EN ISO 105-A03 STN EN ISO 105-C06 to C10, C12 STN EN ISO 105-D01 and D02 STN EN ISO 105-E01 to E09 STN EN ISO 105-E16 STN EN 20105-N01 STN EN ISO 105-N02 STN EN ISO 105-P01 STN EN ISO 105-X05, X10, X11, X12 STN EN 14465, STN EN 14465/A1 OEKO-TEX Standard 201 M-9-B, C, D  STN EN 646	
	paper, cardboard	colour fastness: to water, to acetic acid, to alkaline salt solution, to oil.			
15	textiles, fibres, textile haberdashery	colour fastness to saliva and perspiration	visual assessment (qualitative test)	OEKO-TEX Standard 201 M-9-A	
16	textiles, fibres, leather	<b>colorimetric properties:</b> change of colour, staining, colour, whiteness	spectrophotometry	STN EN ISO 105-A04 to A06 STN EN ISO 105-J01 to J03, J05 STN EN ISO 20471 + A1	
17	textile fabrics fabrics knitted fabrics clothing products	<b>construction parameters:</b> weave, sett, number of courses and wales	measurement of dimensions	STN ISO 3572 STN 80 0018 STN 80 5009 STN EN 1049-2 STN EN 14971	
18	textile fabrics	Thickness	measurement of dimensions	STN EN ISO 5084	
	non-woven fabrics			STN EN ISO 9073-2  STN EN ISO 12625-3  STN EN ISO 534  ISO 4593  STN 64 0181 STN EN 13592 IPS 31583814/84/50 (STN EN ISO 534, STN EN 13592, STN 640181)	
	tissue paper				
	paper cardboard				
	plastics				
	foils				

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19	textile fabrics	pilling	visual assessment	STN EN ISO 12947-4/AC STN EN ISO 12945-2, 4	
20	textile fabrics, clothing products	<b>mechanical properties:</b> strength, extension	strength measurement	STN EN ISO 13934-1,2 STN EN ISO 11393-2 /01  STN EN ISO 10319  STN EN ISO 9073-3 STN EN ISO 1421	
20	Geosynthetics  non-woven fabrics coated fabrics  paper cardboard tissue paper  flat fabrics  non-woven fabrics  coated fabrics  length fabrics yarns, threads	Dry breaking load Wet breaking load  Tear resistance    strength, elongation		STN EN ISO 1924-2 STN EN ISO 12625-4 STN EN ISO 12625-5  STN EN ISO 13937-2,3,4  STN EN ISO 9073-4  STN EN ISO 4674-1  STN EN ISO 2062	
21	Geosynthetics textile fabrics  fabrics clothing products  plastics foils packaging materials	<b>mechanical property:</b> seam strength, joint strength  seam thread slippage  strength of welded joint	strength measurement	STN EN ISO 10321 STN EN ISO 13935-1,2  STN EN ISO 13936-1,2  STN 77 0140	
22	textile fabrics  coated fabrics non-woven fabrics  Geosynthetics  tissue paper  paper cardboard  plastics  Hygiene needs  length fabrics nite  Filaments	weight          length weight	gravimetry	STN EN 12127 STN EN ISO 12947-3/AC STN ISO 3801/Z1, Z2  STN EN ISO 2286-2  STN EN ISO 9073-1  STN EN ISO 9864  STN EN ISO 12625-6  STN EN ISO 536  STN 64 7011  IPS 31583814/83/64  STN EN ISO 2060 STN ISO 7211-5  STN EN ISO 1973	

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23	textile fabrics knitted clothing products  furniture fabrics  personal protective equipment	abrasion	visual assessment	STN EN ISO 12947-1/AC,2 STN EN 13 770  STN EN 14465/A1  STN EN 388 + A1 STN EN 530	
24	flat fabrics	air permeability	permeability measurement	STN EN ISO 9237	
25	flat fabrics	permeability to water	permeability measurement	STN EN ISO 811	
26	textile fabrics  non-woven fabrics  tissue paper  paper cardboard  Hygiene needs	water absorption	gravimetry	CSN 80 0828  STN EN ISO 9073-6  STN EN ISO 12625-8  STN DIN 54 540 - 4, 5, 9 STN EN ISO 535  IPS 31583814/82/50 IPS 31583814/86/50 (STN EN ISO 9073-6, STN EN ISO 12625-8)	
27	flat fabrics	surface wetting - spray test	visual assessment	STN EN ISO 4920	
28	flat fabrics	Thermal and water vapour resistance	permeability measurement	STN EN ISO 11092	
29	flat fabrics	creasing	angle measurement	STN EN ISO 2313-1	
30	flat fabrics  clothing and textile products  tissue paper paper, cardboard plastics, packaging materials  flat fabrics clothing products  plastics, polymer materials and products	dimensions: length, width      dimensional change: after washing   after ironing after dry cleaning  temperature resistance	measurement of dimensions	STN EN 1773  CSN 80 7040 STN 80 5810/Z1 STN EN 13402-3 STN EN ISO 11393-2/01, 6  IPS 31583814/85/80 (STN ISO 536)  STN EN ISO 6330 STN EN ISO 3759 STN EN ISO 5077 STN EN ISO 3758 STN EN ISO 11393-2/01, 6  CSN 80 0823 STN EN ISO 3175-2  IPS 31583814/87/64 (Rybníkář et al. Analysis and testing of plastics Mleziva, Šňupárek, Polymers - production, structure, properties and applications)	
31	textile fabrics	defects, change of appearance	visual assessment	STN 80 0025	

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	clothing products  length fabrics			STN ISO 8498  STN EN ISO 3175-2 STN 80 7016 STN 80 5003  STN 80 0026	
32	textile fabrics  protective clothing tissue paper	<b>resistance to:</b> puncture, ball penetration	force measurement	IPS 31583814/93/80 (STN EN ISO 12236)  STN EN 863 STN EN ISO 12625-9	
33	clothing products personal protective equipment	Performance characteristics	visual assessment, dimensional measurement	STN EN 14682 STN EN ISO 13688/A1 STN EN ISO 20471/A1 STN EN ISO 21420 STN EN 343 STN EN 17353 STN EN 1149-5 STN EN ISO 11611 STN EN ISO 11612 STN EN ISO 11393-2/01,6 STN EN 61482-1-2 STN EN 469	
34	textile fabrics Textiles for cars	horizontal flammability	Length measurement, time measurement	STN ISO 3795	
35	Textiles  industrial and technical textiles home textiles  clothing fabrics clothing products  PPE  toys	vertical flammability	Length measurement, time measurement	STN EN ISO 6940 STN EN ISO 6941  STN EN 1624 STN EN 1625  STN EN 1101/A1 STN EN 1102  STN EN 1103 STN EN 14878/AC  STN EN ISO 15025  STN EN 71-2	
36	textile auxiliaries	softening effect,	visual assessment	IPS 31583814/94/68 (Blažej et al. Tenzidy)	
37	textile fabrics, protective clothing	<b>electrostatic properties:</b> surface resistance, transition resistance	electrical resistance measurement	STN EN 1149-1,2	
38	Textiles	antibacterial efficacy	determination of bacterial number using cultivation techniques	AATCC Test Method 100	
39	textiles, fibres Paper, powdered materials, granulates, solids	antibacterial efficacy	determination of bacterial number using cultivation techniques	ASTM E 2149	

## Abbreviations:

CPSC - test method issued by the "United States Consumer Product Safety Commission Directorate for Laboratory Science"

STN - Slovak technical standard

EN - European technical standard

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ISO - international technical standard ( international standard organisation)  
AATCC - test method issued by the "American Association of Textile Chemists and Colorists"  
ASTM - test method issued by "American Society for Testing and Materials"  
MP SR - Ministry of Agriculture of the Slovak Republic  
MZ SR - Ministry of Health of the Slovak Republic  
MZ CR - Ministry of Health of the Czech Republic - Ministry of Health of the Czech Republic  
IPS - internal test regulation  
GT-AAS - graphite technique, atomic absorption spectrometry  
F-AAS - flame technique, atomic absorption spectrometry  
AMA - Advanced Mercury Analyzer  
GC/MS - gas chromatography with mass detector

- 1) - control of the water used in the performance of the tests after treatment - internal control
- 2) - Decree of MP A MZ SR 1799
- 3) - Regulation (EU) No 1007/2011 of the European Parliament and of the Council
- 4) - Regulation (EC) No 1907 of the European Parliament and of the Council
- 5) - Consumer Product Safety Commission methods - CPSC-CH-C1001-09.3, CPSC-CH-C1001-09.4
- 6) - Consumer Product Safety Commission methods - CPSC-CH-E1001-08; -08.1\*; -08.2\*; -08.3\*, CPSC-CH-E1002-08\*; -08.2\*; -08.3\*  
CPSC-CH-E1003-09; -09.1\*

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