

Product specific requirements: **009. Underwear knitted**

Version: 3.0  
Last update: 01.09.2021

Material	Material Art	Products	Age Group	HS Code
textiles	Knitted	T-Shirts, Tops, Undershirts, Sport T-Shirt, Underwear knitted, Night suits, Nightwear, <b>Functional underwear:</b> Thermal underwear; Ski underwear	women, men kids, baby	6107, 6108, 6109



No	Parameter	Method	Reference	Age group	Requirement	Materials			
						Plastics - PU, PVC, Rubber, TPU	Textiles Natural	Textiles Synthetic	PU Coating, Printing
<b>General &amp; Construction</b>									
1	Fiber composition	EU (Nr) 1007/2011	Ginetex (CH)	/	Single: No tolerance Blends: +/-3% deviation from composition; Max. +/- 2% presence of Extraneous fibers		x	x	
2	Cords and drawstrings on children's clothing	SN EN 14682	SR 817.023.41 (CH)	Till 14 years	Must fulfill requirements	Related to the whole product			
<b>Chemical Parameters</b>									
3	Formaldehyde	Textile: DIN EN ISO 14184-1 Leather: DIN EN ISO 17226-2	EU REACH Annex XVII Entry 72 Oekotex	/	Baby till 3 : n.d. Adults Textile: 75 mg/kg		x	x	x
4	pH value	Textile: DIN EN ISO 3071 Leather: DIN EN ISO 4045	Oekotex	/	Textile: Direct Skin Contact: 4.0-7.5 Textile: Indirect Skin Contact: 4.0-9.0 Leather: 3.5-7.5		x	x	
5	Lead in Textile	Non-leather: EN 16711-1 Leather: ISO 17072-2	SR 817.023.41 SR 814.81 (CH)	/	Paints and varnishes: 100 mg/kg; Surface treatment on Textile: Not detected (5mg/kg)	x			x
6	Cadmium in Textile	EN 16711-1	SR 814.81 (CH)	/	Plastic: 100 mg/kg Surface coating/paint on article: 1000 mg/kg	x			x
7	Azo-Dyes* (Appendix)	Textile: DIN EN 14362-1 Leather: DIN ISO 17234-1 4-aminoazobenzene Textile: DIN EN 14362-3 Leather: DIN ISO 17234-1	SR 817.023.41 (CH)	/	max. 30 mg/kg each		x	x	x
8	Phthalates* (Appendix)	ISO 14389	SR 817.023.41	< 36 months	Baby (<36 months) DEHP / DBP / BBP / DIBP / DIHP / DMEP / DiPP / DnPP / DnHP / DCHP / DIOP / DINP / DIDP / DNOP: 1000 mg/kg (Each or Total)  Other age range: DEHP / DBP / BBP / DIBP / DIHP / DMEP / DiPP / DnPP / DnHP / DCHP / DIOP: 1000 mg/kg (Each or Total)	x			x
11	PAHs *(Appendix)	AfPS GS 2019:01 PAK	SR 814.81 (CH)	/	EU PAH each < 0,5 mg/kg / Total sum < 10 mg/kg	x			x
12	Chlorinated paraffins C10-13 (SCCP) (only for plastic, coating)	ISO 18219 GC-MS or GC-ECD;	SR 814.81 (CH)	/	SCCPs limit (flame retardant): <b>no use</b> ; SCCPs limit (other): < 1000 mg/kg;	x			x
13	Organic Tin Compounds (only for plastic, coating)	Textile: ISO 22744-1 Non-textile: CEN ISO/TS 16179	SR 814.81 (CH)	/	Tri-substituted organostannic compounds 1000 mg/kg DBT: 1000 mg/kg DOT: 1000 mg/kg	x			x
14	Dimethylfumarat	ISO/TS 16186	SR 814.81 (CH)	/	0,1mg/kg		x	x	
15	Penta-, Tetra-, Trichlorophenol (PCP / TeCP / TriCP)	Textile / Leather: LFGB § 64 BVL B82.02.8 Leather: ISO 17070; Polyester / polyester-blend / printed fabric: Modified § 64 LFGB BVL B82.02.8 with alkaline digestion	ChemVerbots V Oekotex SR 814.81 (CH)	/	PCP, TeCP: <b>not merely unavoidable impurities</b> : 5 mg/kg (sum); Baby till 36 mth: 0.05 mg/kg; (sum)		x		x

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<b>Physical Parameter</b>									
16	Weight per m2	Woven. ISO 3801	Manor intern	/	+/- 5%	Related to the whole product			
17	Stretch and recovery	BS EN ISO 20932-1	Manor intern	/	SGS: Weft knitted fabrics 10% Max Unrecovered Elongation after 1 & 30 minutes Fabrics containing elastane < 5% elastane 15N load 5% - 11% elastane 20N load >11% elastane 25N load Assess after 1 and 30 minutes		x	x	
18	Spirality	ISO 16322-2	Manor intern	/	Knitted items: +/- 5% ;		x	x	
19	Seam Bursting Strength	ISO 13938-2[KPa]	Manor intern	/	≥175	Related to the whole product			
20	Bursting Strength	ISO 13938-2[KPa]	Manor intern	/	Underwear knitted: ≥140 (manor) T-Shirts, Tops, Nightwear: 200 (Manor) Sport & functional underwear: 300 Not applicable if > 10% spandex	Related to the whole product			
21	Color fastness to Laundering (washing) ( 1 Wash)	ISO 105/C06	Manor intern	/	Grade 4 Polyamide Grade 3-4		x	x	
22	Appearance after washing ( 1 Wash)	Visual examination	Manor intern	/	<b>Satisfactory</b> No loose fibers, degumming, blistering for adhesive position; No damage, detachment, corrosion, deformation, obvious color change, seam opening after washing.		x	x	
23	Dimensional stability after washing ( 1 Wash)	ISO 6330	Manor intern	/	+/- 5%		x	x	
24	Color fastness to Perspiration (acid and alkaline)	ISO 105/E04	Manor intern	/	Grade 4		x	x	
25	Color fastness to rubbing, dry	ISO 105/X12	Manor intern	/	Grade 3-4 Dark Microfiber- 3 Garment dyeing -3		x	x	
26	Color fastness to rubbing, wet	ISO 105/X12	Manor intern	/	Grade 3 Dark Microfiber 3 Garment dyeing 3		x	x	
27	Color fastness to saliva	DIN 53160-1	Manor intern	Till 3 years (size 50- 98)	Grade 5		x	x	
28	Pilling Martindale (Only for flat knitting)	ISO 12945-2, (1000 revs.)	Manor intern	/	Grade 3-4 (500 revs) Sport & functional underwear: Grade 3-4 (1000revs)		x	x	
29	Flammability	EN 1103 EN 14878, Kindernachtwäsche	SR 817.23.41 (CH)	/	no Surface Flash		x	x	

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<b>Accessories</b>									
30	<b>Metal Parts</b> with skin contact: <b>Nickel</b>	EN 12472:2020 / EN 1811:2011 + A1:2015	SR 817.023.41 (CH)	/	Nickel: <u>Manor &lt; 0,5 µg/cm<sup>2</sup>/Week</u>	Related to the whole product			
31	<b>Plastic Parts</b> with skin contact: <b>Cadmium</b>	Non-leather: EN 16711-1	SR 814.81 (CH)	/	Cadmium 100 mg/kg (Swiss Regulation) Manor: 40 mg/kg (Manor Regulation)	x			x
<b>Attachments' strength</b>									
32	<b>Small parts; sharp point, sharp edge</b>	EN-71-1	Manor intern	Till 14 years	(< 36 months) No small parts; (< 14 years) No sharp point; (< 14 years) No sharp edge.	Related to the whole product			
33	<b>Decoration elements</b>	CEN/TS 17394-2	Manor intern	/	Parts ≥6 mm not > 6mm:  CEN/TS 17394-2 Textiles and textile products - Part 2: Safety of children's clothing - Security of attachment of attachment of buttons-test method.  CEN/TS 17394-3 Textiles and textile products - Part 3: Safety of children's clothing - Security of attachment of metal mechanically applied press fasteners-test method  CEN/TS 17394-4 Textiles and textile products - Part 4: Security of children's clothing- Security of attachment of components except buttons and metal mechanically applied press fasteners-test method	Related to the whole product			
<b>Label</b>									
34	<b>Labeling (with Care Instruction)</b>	EU (Nr) 1007/2011	Ginetex Manor intern	/	Trademark Manufacturer's name (name, address in EU) Made in ... Size (opt. age for children) Care instructions (according to Ginetex) Fiber composition in % (EU 1007/2011) <b>In 1 Swiss official language (DE / IT / FR)</b>	Related to the whole product			
35	<b>Care Instruction</b>	Ginetex	Ginetex Manor intern	/	 Mandatory in following order: washing-bleaching-drying-ironing-professional textile care Opt. Wash with similar colors/ Opt. Wash separately	Related to the whole product			