

KATAG Catalog of Specifications – standard value

Version: 07.2018

Face fabric and Garment

requirement - matrix

- Face fabric (Blouse / Dress / Trouser / Skirt / Jacket / Coat)
- Sportswear
- Day- and Nightdress
- Knitwear (Jersey / Knitwear)
- Bath dress
- Baby-(up to 36 Month) young children from birth up to 7 years (to size 134), older children and teens (7 up to 14 years), greater than size 134 (boys to 182 cm and girls to 176 cm)

Part 1: physical requirements

Arrangement Product:

- 1 – fit / size
- 2 – processing quality
- 3 – designation
- 4 – quality of material
- 5 – color fastness
- 6 – lock-system
- 7 – easy-care system
- 8 – more quality characteristics
- 9 – durability factors of influence
- 10 – certificate

Part 2: chemical requirements

Arrangement harmful substances:

- cover (vanish/polymer)
- print
- fiber (natural)
- fiber (synthetic and mixture)
- plume / down
- funct. Finishing's + waterproofing
- rubber
- wood
- plastic material
- leather
- metal
- foam material
- package

limit value: » Öko-value » legal value » Detox value

- certificate

EG conformity to type – terms of reference

Teil 1 - physical requirements - matrix

test - matrix		Face fabric	Sportswea	Day- and Nightdress	Knitwea	Bathdress	Baby- and Childrenwea
1.	fit / size						
	fit	x	x	x	x	x	x
2.	quality of conventing						
	classification	x	x	x	x	x	x
3.	designation						
	package and product	x	x	x	x	x	x
4.	quality of material						
	material composition	x	x	x	x	x	x
	coating weight per unit area	x	x	x	x	x	x
	yarn count / gauge	x	x	x	x	o	x
5.	colour fastness						
	colourfastness to light	x	x	x		x	x
	colourfastness to rubbing - dry	x	x	x	x	x	x
	colourfastness to rubbing - wet	x	x	x	x	x	x
	colourfastness to wash	x	x	x	x	x	x
	colourfastness to sweat	x	x	x	x	x	x
	colourfastness to water	x	x	x	x	x	x
	saliva-sweat-fastness						x
	colourfastness to seawater					x	
	colourfastness to chlorine					x	
	colourfastness to sublimate	o	o			o	
	colourfastness to dry cleaning	o					
6.	lock-system						
	zipper	o	o	x		o	x
	safeness children clothes	x	x	x	x	x	x
	button / press button	o	o	x		o	x
	string						x
	corrosion	o	o	x	o	x	x
7.	easy-care system						
	washing acc. care instruction	x	x	x			x
	default	x	x	x			x
	visual appearance / fitness for use	x	x	x	x	x	x
	noniron - wash and wear	o					
8.	quality characteristics						
	tensile strength	o	o	o			o
	burst power			o	o	o	
	elongation method: Heberlein	o	o		o		
	tear strength	o	o	o			o
	seam slippage strength	o		x			x
	abrasion resistance (Martindale)	o	o	x	o	o	x
	pilling tendency (Martindale)	o	o	o	o	o	o
	Snagging		o		o	o	
	Elasticity	o	o	o	o	x	o
9.	durability factors of influence						
	hydrophobicity	o	o				o
	hydrophilic fittings		o	o			
	watertightness	o	o				o
	water vapor permeability	o	o				
	air permeability	o	o	o			
10.	certificate						
	EG-conformity to type – terms of reference	o	o	o	o	o	o

x - requirement

o - optional parameters - not coactive

physical requirements			
testing standard	method	relevant article	Set value
1. fit / size			
Correct fit	before washing and if necessary after washing	all textiles testing also after wash when natural fiber	fit before washing and if necessary after washing
2. quality of conventing			
visual control	visual control	all articles	no negative distinctive feature
cutoff edge	DIN 147 (CIELab)	all articles, dye lot up to dye lot all articles, edge-middle-edge, beginning-end	max. ΔE 1,2 max. ΔE 0,5
3. designation			
package and product	product safety law care labeling Ginetex acc. EN ISO 3758	all articles	accordance
4. quality of material			
material composition	care labeling V0 (EU) No. 1007/2011 textiles: ISO 1833	all articles fine animal hair also tested with qualitative and quantitative analysis	accordance with specification, identified as modal sewn in label and package
	leather ass. RAL 060 A2 / DIN EN ISO 17186 Animal type acc. RAL 063 A2 / RAL 062 B2 / RAL 064 A / RAL 075 A3	leather additional tested by animal species	
Surface weight / unit weight	DIN EN 12127	all articles	acc. with standard value tolerance: +/-5%
Fiber fineness	DIN 53830-3	all relevant articles	acc. with standard value tolerance: +/-10%
Gauge (gg)		all relevant articles	acc. with standard value

testing standard	method	relevant article	Set value
5. colour fastness			
Colorfastness to light	ISO 105 B02, method 3 level of exposure 5: blue scale 5 up to gray scale Note 3	all articles	change in color: level of exposure 5: limit value Note 5 exceptional case: Silk limit value Note 3-4 neon colors: limit value Note 3
Colorfastness to rubbing (dry)	ISO 105 X12	all articles	Staining: Note 4 Exception dark colors: Indigo, Pigment print, Cold Pigment Dye, Oil Wash, Velvet: Note 3
Colorfastness to rubbing (wet)	ISO 105 X12	all articles	Staining: Note 3-4 exceptional case dark colors: Indigo, Pigment print, Cold Pigment Dye, Oil Wash, Velvet: Note 2
Colorfastness to washing	ISO 105 C06	all articles	Change in color: Note 4 Staining: Note 3-4
Colorfastness to perspiration	ISO 105 E04	all articles	Change in color: Note 4 Staining: Note 3-4
Colorfastness to water	ISO 105 E01	all articles	Change in color: Note 4 Staining: Note 3-4

testing standard	method	relevant article	Set value
5. colour fastness			
Saliva-Sweat-fastness	ISO 53160-1 and -2	-Baby-(up to 36 Month) -young children up to 7 years -older children/teens 7 - 14 years	Saliva-Sweat-fastness: Note 5
Colorfastness to seawater	ISO 105-E02	swimwear, beach towel	Change in color: Note 4 Staining: Note 4
Colorfastness to chlorinated water	ISO 105-E03, 50 mg/l swimwear 20 mg/l beach towel (active Chlorine)	swimwear, beach towel	Change in color: Note 4 Staining: Note 4 exception: Staining neon colors: Note 3
Colorfastness to sublimate	DIN 54056	Article: Polyester with contrast colors	Change in color: Note 4 Staining: Note 4 - 5
Colorfastness to dry cleaning	DIN EN ISO 105-D1	all relevant articles	Change in color: Note 4 Staining: Note 3 - 4
Leather: Colorfastness to rubbing	DIN EN ISO 11640 dry: 20 revs. wet: 10 revs.	Leather	Change in color: Note 3-4 Staining: Note 2-3
Leather: Colorfastness to washing	DIN EN ISO 11642	Leather	Change in color: Note 3-4 Staining: Note 2-3
Leather: Colorfastness to perspiration	DIN EN ISO 11641	Leather	Change in color: Note 3-4 Staining: Note 2-3

testing standard	method	relevant article	Set value																				
7. easy-care system																							
Dimension stabilste acc. washing	household linen acc. requirement - washing machine - tumble dryer - detergent	all washable articles Grade: material with elasthane could have higher shrinkage	Jersey: - 5 up to + 2 % Knitwear: - 6 up to + 3 % woven goods: ± 2 %																				
Diagonal pull		all washable articles	Knitted fabric: 3% (with regard to legh) woven goods: 2% (with regard to legh) account ISO 16322-3, Method B																				
Optic after washing		all washable articles	No negative change																				
Easy care equipment	DIN EN ISO 15487		Non iron: Smoothing effect after 1 laundry: Note > 3,5 Easy iron: Smoothing effect after 1 laundry: Note > 2,5																				
8. more quality characteristics																							
tensile strength	DIN EN ISO 13934-1 Method Grab: DIN EN ISO 13934-2	all relevant articles close fitting: by trousers and skirt	Tear stregh acc. DIN EN ISO 13934-1: lengthwise and cross ≤ 200 N up to 250N, close fitting: ≤ 300 N Tear stregh acc. DIN EN ISO 13934-2: lengthwise and cross ≤ 150 N close fitting: ≤ 200 N Elongation: 12,5 % up to 55,0 %																				
Bursting strength	EN ISO 13938-2	Day- and Nightdress, Knitware, Bath dress	≤ 200 kPa (7,3 q/cm)																				
Elongation method Heberlein	Heberlein-Method	all relevant articles with Elasthan	Woven goods: 10%+ 2% Knitware: see Article																				
Tear strength	DIN EN ISO 13937-1 (Elmendorf) DIN EN ISO 13937-2	all relevant articles	Face fabric/Sportswear: lengthwise and cross 12 N – 15 N Blouse/Skirt/Day-Nightwear: lengthwise and cross 8 N – 10 N																				
Seam slippage stregh	DIN EN ISI 13936-1 DIN EN ISI 13936-2	all relevant articles close fitting: by trousers and skirt	Seam opening 4 mm to 120N, close fitting: 4 mm up to 160 N Strength up to 60 N: 2 mm Skirt / Trousers: Strength up to 120 N: 3 mm, close fitting: 120 N: 2 mm																				
Abrasion restistance Martindale	DIN EN ISO 12947-1/-2	all relevant articles without Velvet / Cord – cross side: Day-Nightdress: Knitwear:	12 000 revs. Up to 20 000 revs. 5 000 revs. 10 000 revs. 8 000 revs.																				
Pilling	DIN EN ISO 12945-1	without Polyester	10.800 revs. (3h): Note ≤ 3-4																				
		with Polyester	10.800 revs. (3h): Note ≤ 3																				
	DIN EN ISO 12945-2 (Martindale)	all relevant articles bath dress: Note 4	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Flat Surface</th> <th style="text-align: center;">Rough Surface</th> <th style="text-align: center;">Knitwear</th> </tr> </thead> <tbody> <tr> <td>125 revs:</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3-4</td> <td style="text-align: center;">3-4</td> </tr> <tr> <td>500 revs:</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td>1000 revs:</td> <td style="text-align: center;">4</td> <td style="text-align: center;">2-3</td> <td style="text-align: center;">2-3</td> </tr> <tr> <td>2000 revs:</td> <td style="text-align: center;">4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>		Flat Surface	Rough Surface	Knitwear	125 revs:	4	3-4	3-4	500 revs:	4	3	3	1000 revs:	4	2-3	2-3	2000 revs:	4	-	-
	Flat Surface	Rough Surface	Knitwear																				
125 revs:	4	3-4	3-4																				
500 revs:	4	3	3																				
1000 revs:	4	2-3	2-3																				
2000 revs:	4	-	-																				
Snagging	BS 8479	all articles Knitware	2000 revs: Note ≤ 3																				
Elasticity	EN 14704-1	all relevant articles	Woven goods load 6 N / cm Knitware 3 – 7 N / cm – acc. elastane																				

testing standard	method	relevant article	Set value
9. durability factors of influence			
Hydrophobicity (Spray-Test)	DIN EN ISO 4920	all relevant articles if necessary: Bionic-Finish@Eco	Original: ISO 4 after 5 Laundry: ISO 2-3
Hydrophilic fittings	AATCC 79	all relevant articles	≤ 5 Second, testing inside
Waterproof	DIN EN 20811	all relevant articles	≤ 300 mbar
Water vapor permeability	DIN 53122	all relevant articles	1500-2000 g/m ² xd (good Quality)
Air permeability	DIN EN ISO 9237	all relevant articles	≤ 5 mm/s (l/m ² /s)

testing standard	method	relevant article	Set value
10. certificate			
EU – conformity to type – terms of reference		Directive requested	The supplier prepares and signs a declaration of conformity for all legal requirements which apply in the context of European directives. - if this application finds

harmful substances	coating (varnish, polymer)	prints	fibres (natural)	fibres (synthetics and blends)	spring and down	funct. finishings / impregnation	rubber	wood	plastic	leather	metal	foam material	package	Öko-limit value Baby	Öko-limit value adults	legal limit value Baby	legal limit value adults	limit value acc. Detox Baby	limit value acc. Detox adults	unit
Alcylphenole/APEO's																				
Octyl-/Nonylphenole (Sum)	X	X	X	X	X				X	X				< 10	< 10	--	--	< 5	< 5	mg/kg
Octyl-/Nonylphenole/Octyl-/Nonylphenolethoxylate (Sum)	X	X	X	X	X				X	X				< 100	< 100	< 1000 only for NPEO's	< 1000 only for NPEO's	< 50	< 50	mg/kg
Aromatic Amines																				
Aromatic Amines in Plastics	X	X					X		X			X		--	--	--	--	--	--	
Azodyes / Partially Arylamines																				
Azo-Dyes		X	X	X						X				< 20	< 20	< 30	< 30	< 20 + Anilin	< 20 + Anilin	mg/kg
Biozide																				
General			X	X	X	X		X		X				unverifiably	unverifiably	--	--	--	--	mg/kg
Chlororganic Carrier																				
chlorinated Benzole and Toluole				X										< 1	< 1	--	--	Sum: < 1	Sum: < 1	mg/kg
Chlorinated Paraffins																				
shortchained chlorinated Paraffins C10-C13 (SCCP)	X	X				X	X		X	X		X		< 100 mg/kg	< 100 mg/kg	< 1 %	< 1 %	Sum: < 50 mg/kg	Sum: < 100 mg/kg	mg/kg / %
Chlorphenole																				
Monochlorphenol		X	X	X	X	X		X		X				< 0,5	< 3	--	--	Sum: ≤ 0,5	Sum: ≤ 1	mg/kg
Dichlorphenol		X	X	X	X	X		X		X				< 0,5	< 3	--	--	Sum: ≤ 0,5	Sum: ≤ 1	mg/kg
Trichlorphenol		X	X	X	X	X		X		X				< 0,2	< 2	--	--	Sum: ≤ 0,2	Sum: ≤ 1	mg/kg
Tetrachlorphenol		X	X	X	X	X		X		X				< 0,05	< 0,5	--	--	Sum: ≤ 0,05	Sum: ≤ 0,25	mg/kg
Pentachlorphenol		X	X	X	X	X		X		X				< 0,05	< 0,5	< 5	< 5	Sum: ≤ 0,05	Sum: ≤ 0,25	mg/kg
Chrom VI in Leder																				
Chrom VI										X				< 3	< 3	< 3	< 3	< 3	< 3	mg/kg
Dimethylfumarate																				
Dimethylfumarate in desiccant bags			X	X	X	X		X		X				< 0,1	< 0,1	< 0,1	< 0,1	--	--	mg/kg
Disperse Dyes																				
Allergenic Disperse Dyes		X		X										< 50	< 50	< 5 mg/l ± 75 mg/kg	< 5 mg/l ± 75 mg/kg	< 20	< 20	mg/l ± mg/kg
Dye, ÖKO																				
Dye, ÖKO		X		X										< 3,3 (?)	< 3,3 (?)	--	--	--	--	mg/l
Flame Retardants																				
General			X	X		X	X		X	X		X		unverifiably	unverifiably	--	--	unverifiably	< 10	mg/kg
Hexabrombiphenyl			X	X		X	X		X	X		X		unverifiably	unverifiably	unverifiably	unverifiably	unverifiably	< 10	mg/kg
TRIS, TEPA, PBB			X	X		X	X		X	X		X		unverifiably	unverifiably	unverifiably	unverifiably	unverifiably	< 10	mg/kg
Octabromdiphenylether			X	X		X	X		X	X		X		unverifiably	unverifiably	< 0,1 %	< 0,1 %	unverifiably	< 10 mg/kg	% / mg/kg
Tetra-, Penta-, Hexa-, Heptabromdiphenylether			X	X		X	X		X	X		X		unverifiably	unverifiably	acc. Reach Annex 17 List < 10 (?)	acc. Reach Annex 17 List < 10 (?)	unverifiably	< 10	mg/kg
Formaldehyde																				
Formaldehyde		X	X	X	X	X		X		X				< 16	< 75	< 1000	< 1000	< 16	< 75	mg/kg
Metals, extractable																				
Antimony		X	X	X	X		X		X	X		X		< 30	< 30	--	--	< 30	< 30	mg/kg
Arsenic		X	X	X	X		X		X	X		X		< 0,2	< 1	--	--	< 0,2	< 0,2	mg/kg
Lead		X	X	X	X		X		X	X		X		< 0,2	< 1	--	--	< 0,2	< 0,2	mg/kg
Cadmium		X	X	X	X		X		X	X		X		< 0,1	< 0,1	--	--	< 0,1	< 0,1	mg/kg
Chrome		X	X	X	X		X		X	X		X		< 1	< 2	--	--	< 1	< 1	mg/kg
Chrome VI		X	X	X	X		X		X	X		X		n. n.	n. n.	--	--	< 3	< 3	mg/kg
Cobalt		X	X	X	X		X		X	X		X		< 1	< 4	--	--	< 1	< 1	mg/kg
Copper		X	X	X	X		X		X	X		X		< 25	< 50	--	--	< 25	< 50	mg/kg
Nickel		X	X	X	X		X		X	X		X		< 1	< 4	--	--	< 1	< 1	mg/kg
Mercury		X	X	X	X		X		X	X		X		< 0,02	< 0,02	--	--	< 0,02	< 0,02	mg/kg
Metals, total content																				
Lead		X	X				X	X	X		X	X		< 90	< 90	< 500	< 500	< 75	< 75	mg/kg
Cadmium		X	X				X	X	X		X	X		< 40	< 40	< 100	< 100	< 40	< 40	mg/kg
Nickell Release / longer Skin Contact																				
Nickel												X		< 0,5	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5	µg/cm ² /Woche
Organic Tin Compounds																				
Dibutyltin (DBT)		X	X	X	X	X		X		X		X		< 1	< 2	--	--	< 0,5	< 0,5	mg/kg
Diocetyl tin (DOT)		X	X	X	X	X		X		X		X		< 1	< 2	--	--	< 0,5	< 0,5	mg/kg
Tributyltin (TBT)		X	X	X	X	X		X		X		X		< 0,5	< 1	--	--	< 0,5	< 0,5	mg/kg
Triphenyltin (TPHT)		X	X	X	X	X		X		X		X		< 0,5	< 1	--	--	< 0,5	< 0,5	mg/kg
Trisubstituierte Organic Tin, Sum		X	X	X	X	X		X		X		X		---	---	< 1000	< 1000	---	---	mg/kg
more Organic Tin compounds		X	X	X	X	X		X		X		X		1	2	--	--	---	---	mg/kg
Perfluorinated Tensides																				
Perfluorooctansulfonate PFOS (C8)						X								< 1	< 1	< 1	< 1	< 1	< 1	µg/m ²
Perfluorheptaneacid PFHpA (C7)						X								< 0,05	< 0,1	--	--	< 0,05	< 0,1	mg/kg
Perfluoroctaneacid PFOA (C8)						X								< 1 µg/m ²	< 1 µg/m ²	--	--	< 1 µg/m ²	< 1 µg/m ²	µg/m ²
Perfluorononaneacid PFNA (C9)						X								< 0,05	< 0,1	--	--	< 0,05	< 0,1	mg/kg
Perfluordecaneacid PFDA (C10)						X								< 0,05	< 0,1	--	--	< 0,05	< 0,1	mg/kg

REACH

For SVHC substances (substances of very high concern) according to the REACH Candidate List, the supplier is obligated to provide this information if more than 0.1% of the substance in an article (taking partial products into consideration) is included. (Regulation (EC) 1907/2006 Article 33 and Annex 14, Judgment of the Court (Third Chamber), 10 September 2015 C-106/14). SVHC substances, see under

Biocidal products / treated goods

Products with biocidal finish (treated article) must comply with the requirements of the Biocide Regulation (EU) 528/2012. <http://www.reach-clp-biocide-helpdesk.de/biocide-regulation.html>

Visibility requirements for children and baby items

Tear-off force of buttons and small parts mechanical safety	EN 71-1 BS 7907 / BS4162, UNE 40902
Children's sleeping bags	BS 8510
Flammability	EN 14878, BS 5722, CEN / TR 13387
Cords and reels	EN 14682

Safety requirements for adults

Flammability EN 1101/1102/1103 (no flaming effect)

Labeling of clothing and home textiles

Textile products must comply with EU Regulation 1007/2011. Articles should have a care label with symbols according to ISO 3758.

Manufacturer data and traceability

The name and full contact address of the manufacturer must be provided in accordance with Directive 2001/95 / EC Furthermore, a clear identification for the identification of the article is to be attached. (e.g., article number)

Definition and product group

This requirement profile refers to clothing, accessories and home textiles for adults and children for normal daily use. For special articles (e.g., professional occupation and protection), further requirements may need to be considered.

Öko limits

The listed ÖKO limit values are based on the requirements of ÖKO-TEX Standard 100. Baby limit values include articles for babies and toddlers under the age of 3 years, limit values adults are directed to articles for children older than 3 years and adults

Conformity

Each article with the packaging must comply with all mentioned requirements. In addition, the supplier must assure that the delivered article complies with all requirements of REACH Regulation 1907/2006 and Product Safety Directive 2001/95 / EC. The supplier is obligated to deliver goods conforming to the test sample by means of a declaration of conformity in accordance with ISO / IEC 17050

Alkylphenole / Alkylphenoethoxylate AP / APEO

Test method: prEN ISO 18218-1 (mod) prEN ISO 18254 (mod)
EU Regulation (EC) 1907/2006, Limit value for preparations: nonylphenol and ethoxylate: 0.1%, limit value for textile products - valid from 03.02.2021: nonylphenol ethoxylates 0.01%, no limit for octylphenol and ethoxylates.

Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Nonylphenole NP		Octylphenole OP		Octylphenoethoxylate OPEO	
Nonylphenoethoxylate NPEO					

Aromatic amines

Test method DIN EN 14362-1, house method: Extraction with Dichlormethane or Tetrahydrofurane, GC/MS

Germany: Product Safety Act LFGB section 30

EU: guideline 2001/95/EG

Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
2.4-Toluyldiamine	95-80-7	3.3-Dimethylbenzidine	119-93-7	o-Anisidine	90-04-0
2-Naphthylamine	91-59-8	4.4-Diaminodiphenylmethane	101-77-9	o-Toluidine	95-53-4
3.3-Dichlorobenzidine	91-94-1	Aniline	62-53-3	p-Chloroaniline	106-47-8
3.3-Dimethoxybenzidine	119-90-4	Benzidine	92-87-5	p-Phenylendiamine	106-50-3

AZO dyes / cleavable arylamines					
Test method: leather; § 64 LFGB B 82.02-3 / DIN EN ISO 17234-1; Textiles § 64 LFGB B 82.02-2 / DIN EN 14362-1; 4-Aminoazobenzole: leather § 64 LFGB 82.02-9 / DIN EN ISO 17234-2 and textiles § 64 LFGB B 82.02-15 / DIN EN 14362-3; Navy blue: DIN 54231					
EU: regulation (EG) 1907/2006; valid limit for textiles and leather with skin contact: 30 mg/kg; use of Navy blue is forbidden					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
2.4.5-Trimethylaniline	137-17-7	3.3-Dimethoxybenzidine	119-90-4	4-Aminobiphenyle	92-67-1
2.4-Diaminoanisol	615-05-4	3.3-Dimethyl-4.4-diaminodiphenylmethane	838-88-0	4-Chloro-2-methylaniline	95-69-2
2.4-Toluylendiamine	95-80-7	3.3-Dimethylbenzidine	119-93-7	Benzidine	92-87-5
2.4-Xylidine	95-68-1	4.4-Diaminodiphenylmethane	101-77-9	o-Aminoazotoluene	97-56-3
2.6-Xylidine	87-62-7	4.4-Methylene-bis-(2-Chloroaniline)	101-14-4	o-Anisidine	90-04-0
2-Amino-4-nitrotoluole	99-55-8	4.4-Oxydianiline	101-80-4	o-Toluidine	95-53-4
2-Naphthylamine	91-59-8	4.4-Thiodianiline	139-65-1	p-Chloroaniline	106-47-8
3.3-Dichlorobenzidine	91-4-1	4-Aminoazobenzene	60-09-3	p-Kresidine	120-71-8
Biocides					
Test method: house method; extraction in organic solvent; Detection with GC/MS					
EU: Biocide regulation (EU) 528/2012					
Chlororganic carriers					
Test method: DIN 54232					
EU: regulation (EC) 1907/2006; valid limit refers to trichlorobenzene (1.2.3-Trichlorobenzene; 1.2.4-Trichlorobenzene ; 1.3.5-Trichlorobenzene) in preparation: 0.1 %; no limit for consumer products.					
Germany: Limit value refers to 1.2.4- Trichlorobenzene in preparation: 0.1 %; no limit für consumer products					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Chlorobenzene	108-90-7	Hexachlorobenzene	118-74-1	Tetrachlorotoluole	
Chlorotoluenes		Pentachlorobenzene	608-93-5	Trichlorobenzenes	
Dichlorobenzenes		Pentachlorotoluole		Trichlorotoluole	
Dichlorotoluene		Tetrachlorobenzenes			
Chlorinated Paraffins					
Test method: DIN EN ISO 18219 (mod.)					
EU: regulation (EC) 850/2004; limit value: 0.15 %					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Short-chain chlorinated paraffins C10 - C13 (SCCP)	85535-84-8				
Chlorophenols					
Test method: EPA 3545A; DIN EN ISO 17070 (mod.)					
EU: regulation (EC) 1907/2006; limit value for PCP in preparation: 0.1 %; no limit for consumer products.					
Germany: ChemVerbotsV; limit value for PCP in consumer products: 5 mg/kg					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
2.3.4.5-Tetrachlorophenol	4901-51-3	2.4.5-Trichlorophenol	95-95-4	3.4.5-Trichlorophenol	609-19-8
2.3.4.6-Tetrachlorophenol	58-90-2	2.4.6-Trichlorophenol	88-06-2	3.4-Dichlorophenol	95-77-2
2.3.4-Trichlorophenol	15950-66-0	2.4-Dichlorophenol	120-83-2	3.5-Dichlorophenol	591-35-5
2.3.5.6-Tetrachlorophenol	935-95-5	2.5-Dichlorophenol	583-78-8	3-Chlorophenol	108-43-0
2.3.5-Trichlorophenol	933-78-8	2.6-Dichlorophenol	87-65-0	4-Chlorophenol	106-48-9
2.3.6-Trichlorophenol	933-75-5	2-Chlorophenol	95-57-8	Pentachlorophenol (PCP)	87-86-5
2.3-Dichlorophenol	576-24-9				
Chrome VI in leather					
Test method: DIN EN ISO 17075 / § 64 LFGB B 82.02-11					
EU: regulation (EC) 1907/2006; limit value for leather in consumer products with skin contact: 3 mg/kg					
Germany: BedGgstV; limit value for leather with skin contact: 3 mg/kg					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Chrome VI					
Dimethyl fumarate					
Test method: CEN ISO/TS 16186 (mod.)					
EU: regulation (EC) 1907/2006; limit: 0.1 mg/kg					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Dimethyl fumarate	624-49-7				
Disperse dyes allergenic					
Test method: DIN 54231					
EU: guideline 2001/95/EG					
Germany: ProdSG; LFGB § 30; BfR-recommendation No 041/2012					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Disperse Blue 1	2475-45-8	Disperse Blue 35	12222-75-2	Disperse Red 1	2872-52-8
Disperse Blue 106	12223-01-7	Disperse Orange 3	730-40-5	Disperse Yellow 3	2832-40-8
Disperse Blue 124	61951-51-7	Disperse Orange 37/76	13301-61-6		

Dyes; Öko					
Test method: DIN 54231					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Acid Red 26	3761-53-3	Disperse Blue 102	12222-97-8	Disperse Yellow 1	119-15-3
Acid Violet 49	1694-09-3	Disperse Blue 26	3860-63-7	Disperse Yellow 23	6250-23-3
Basic Blue 26	2580-56-5	Disperse Blue 3	2475-46-9	Disperse Yellow 39	12236-29-2
Basic Green 4	569-64-2	Disperse Blue 7	3179-90-6	Disperse Yellow 49	54824-37-2
Basic Red 9	569-61-9	Disperse Brown 1	23355-64-8	Disperse Yellow 9	6373-73-5
Basic Violet 14	632-99-5	Disperse Orange 1	2581-69-3	Pigment Red 104	12656-85-8
Basic Violet 3	548-62-9	Disperse Orange 11	82-28-0	Pigment Yellow 34	1344-37-2
Direct Black 38	1937-37-7	Disperse Orange 149	85136-74-9	Solvent Yellow 1	60-09-3
Direct Blue 6	2602-46-2	Disperse Red 11	2872-48-2	Solvent Yellow 2	60-11-7
Direct Red 28	573-58-0	Disperse Red 17	3179-89-3	Solvent Yellow 3	97-56-3
Disperse Blue 1	2475-45-8				
Flame retardants					
Test method: DIN EN ISO 17881-1; DIN EN ISO 17881-2; DIN EN 62321-6 (mod.)					
EU: regulation (EC) 1907/2006; limit value: TRIS;TEPA;PBB in textiles: no use; Octabromdiphenylether in consumer products: 0.1 %					
EU: regulation (EC) 850/2004; limit value: Tetra-; Penta-; Hexa-; Heptabromdiphenylether: 10 mg/kg; Articles containing SCCP or Hexabromdiphenyl are prohibited.					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Decobromodiphenylether	1163-19-5	Short-chain chlorinated paraffins C10 - C13 (SCCP)	85535-84-8	Tetrabromdiphenylether et al.	40088-47-9
Heptabromdiphenylether	68928-80-3 et al.	Nonabromdiphenylether	63387-28-0	Tri-(2,3-Dibrompropyl)-phosphate TRIS	126-72-7
Hexabrombiphenyl	36355-01-8 et al.	Octabromdiphenylether	32536-52-0 et al.	Tris(2-choroethyl)-posphate (TCEP)	115-96-8
Hexabromcyclododecane (acc. Alpa; Beta; Gamma)	25637-99-4	Pentabromdiphenylether	32534-81-9 et al.	Tris-(aziridiny)-phosphinoxid (TEPA)	5455-55-1
Hexabromdiphenylether	36483-60-0 et al.	Polybrominated Biphenyls (PBB)	59536-65-1		
Fomaldehyde					
Test method: DIN EN ISO 14184-1; DIN EN ISO 17226-1/-2					
Germany: BedGgstV; Mandatory labeling of textiles with skin contact from greater than 1500 mg/kg					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Formaldehyde	50-00-0				
Metals; extractable in sweat solution					
Test method: EN 16711-1/-2 / DIN EN ISO 17072-1; ISO 11083 / DIN EN ISO 105-E04 (Chrome VI)					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Antimony	7440-36-0	Chrome	7440-47-3	Copper	7440-50-8
Arsenic	7440-36-2	Crome VI		Nickel	7440-02-0
Lead	7439-92-1	Cobalt	7440-48-4	Mercury	7439-97-6
Cadmium	7440-43-9				
Metals; total content					
Test method: EPA 3015A; DIN EN ISO 17294-2; prEN 16711-1					
EU: (Lead) regulation (EC) 1907/2006; no use of lead sulphates and lead carbonates; no use of lead in wood preservatives; limit: in jewelery: 0.05 %; Article and their accessible parts which can be put into the mouth of children: 0.05 % or $\leq 0.05 \mu\text{g}/\text{cm}^2/\text{h}$					
EU: (Cadmium) regulation (EC)1907/2006; limit value : in paints and varnishes: 0.1 %; in plastics: 100 mg/kg; in metals/alloys of jewelry and decorative elements: 100 mg/kg					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Lead	7439-92-1	Cadmium	7440-43-9		
Metal permeability / long skin contact					
Definition of long skin contact: 10 minutes on 3 or more occasions within 2 weeks or 30 minutes on one or more occasions within 2 weeks.					
Test method: DIN EN 1811; DIN EN 12472					
EU: regulation (EC) 1907/2006: limit value for articles with long-term skin contact: $0.5 \mu\text{g}/\text{cm}^2/\text{week}$					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Nickel	7440-02-0				

Organotin compounds					
Test method: CEN/TS 16179 (mod.)					
EU: regulation (EC) 1907/2006; DBT: limit value 0.1 % tin; DOT: limit value for Textiles with skin contact, Gloves, Shoes, Wall and Floor coverings, Baby articles, Women's toiletries: 0.1 % tin; Trisubstituted organotin compounds (TBT / TPhT) limit value: 0.1 % tin					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Dibutyltin (DBT)		Monobutyltin (MBT)		Trimethyltin (TMT)	
Dimethyltin (DMT)		Monooctyltin (MOT)	94410-07-8	Trioctyltin (TOT)	
Diocetylun (DOT)		Tetrabutyltin (TeBT)		Triphenyltin (TPhT)	
Diphenyltin (DPT)		Tributyltin (TBT)		Trippropyltin (TPT)	
Methyltin (MT)		Tricyclohexyltin (TCyHT)			
Pesticides					
Test method: EPA M 8270C; EPA 3545A (mod.)					
EU: regulation (EC) 850/2004; Articles may not contain substances from Annex I					
Germany: ChemVerbotsV; Consumable products containing DDT are not marketable					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
1.1.1-Trichloro-2.2-bis-(4-chlorophenyl)ethan DDT and Isomers	50-29-3	DDT ortho; para	789-02-6	Malathion	121-75-5
2.4.5-Trichlorophenoxyacetic	93-76-5	DEF	78-48-8	MCPA	94-74-6
2.4-Dichlorophenoxyacetic	94-75-7	Deltamethrin	52918-63-5	MCPB	94-81-5
Acetamiprid	135410-20-7	d-Hexachlorocyclohexane	319-86-8	Mecoprop	93-65-2
a-Hexachlorocyclohexane	319-84-6	Diazinon	333-41-5	Metamidophos	10265-92-6
Aldicarb	116-06-3	Dichloroprop	120-36-5	Methoxychlorine	72-43-5
Aldrin	309-00-2	Dichlorophos	141-66-2	Mirex	2385-85-5
other Hexachlorocyclohexane (Isomers)	608-73-1	Dieldrin	60-57-1	Monocrotophos	6923-22-4
Azinophos-ethyl	2642-71-9	Dimethoat	60-51-5	Nitenpyram	150824-47-8
Azinophos-methyl	86-50-0	Dinoseb; salts and acetate	88-85-7	Parathion	56-36-2
Bromophos-ethyl	4824-78-6	Dinotefuran	165252-70-0	Parathion-methyl	298-00-0
Captafol	24 25-06-1	Endosulfan alpha	959-98-8	Pentachlorbenzene	608-93-5
Carbaryl	63-25-2	Endosulfan beta	33213-65-9	Perthan	72-56-0
Chlorodan cis	5103-71-9	Endrin	72-20-8	Phosdrin / Mevinphos	7786-34-7
Chlorodan trans	5103-74-2	Esfenvalerat	66230-04-4	Polychlorinated naphthalenes	
Chlorodimeform	470-90-6	Fenvalerat	51630-58-1	Profenophos	31218-83-4
Chlorofenvinphos	6164-98-3	Heptachlorine	76-44-8	Propethamphos	41198-08-7
Clothianidin	210880-92-5	Heptachloroepoxid endo	1024-57-3	Quinaphos	13593-03-8
Coumaphos	56-72-4	Heptachloroepoxid exo	28044-83-9	β-Hexachlorocyclohexane	319-85-7
Cyfluthrin	68359-37-5	Hexachlorobenzene	118-74-1	Stroban	8001-50-1
Cyhalothrin	91465-08-6	Hexachlorobutadiene	87-68-3	Teledrin	297-78-9
Cypermethrin	52315-07-8	Imidacloprid	105827-78-9	Thiacloprid	111988-49-9
DDD ortho; para	53-19-0	Isodrin	465-73-6	Thiamethoxam	153719-23-4
DDD para; para	72-54-8	Klevan	4234-79-1	Toxaphen	8001-35-2
DDE ortho; para	3424-82-6	Kepon / chlorodecon	143-50-0	Trifluralin	1582-09-8
DDE para; para	72-55-9	Lindan	58-89-9		
Phthalates - softener					
Test method: DIN EN ISO 14389 (mod.)					
EU: regulation (EC) 1907/2006; limit value value for toys and baby articles: sum (DEHP, BBP, DBP) = 0.1 %; sum (DNOP, DIDP, DINP) = 0.1 %					
Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Butylbenzylphthalate / BBP	85-68-7	Di-C7-11-branched and linear Alkylester / DHNUP	68515-42-4	Di-iso-hexylphthalate / DIHxP	71850-09-4
Di-(2-ethylhexyl)-phthalate / DEHP	117-81-7	Di-cyclohexylphthalate / DCHP	84-61-7	Di-iso-nonylphthalate / DINP	28553-12-0 68515-48
Di-(2-methoxyethyl)-phthalate DMEP	117-82-8	Di-hexylphthalate, branched and linear / DHxP	68515-50-4	Di-n-hexylphthalate / DHP	84-75-3
Dibutylphthalate (DBP)	84-74-2	Di-iso-butylphthalate / DIBP	84-69-5	Di-n-octylphthalate / DNOP	117-84-0
Di-C6-8-branched alkylesters / DIHP	71888-89-6	Di-iso-decylphthalate / DIDP	26761-40-0 68515-49	Di-n-pentylphthalate / DPP (n-, iso- or mixture)	131-18-0 at al.
pH - Value					
Test method: DIN EN ISO 3071 (Textiles; Down and Feathers); DIN EN ISO 4045 (Leather)					

Polycyclic aromatic hydrocarbons PAK

Test method: AfPS GS 2014:01 PAK

EU: regulation (EC) 1907/2006; limit: for consumer products with immediate or repeated short-chain skin-mucous membrane contact; Adults: 1 mg/kg; Children:0.5 mg/kg (8 carcinogenic PAK's market with *)

Germany: ProdSG; LFGB § 30; BfR-recommendation No 025/2009; PAK Content in consumer products should be as low as possible; AfPS GS 2014:PAK: limits only apply to products with GS-Certifikation and are dependent on the product categories - 11 limit value for individual PAK-substances; total limit value 7 PAK's (Acenaphthylene, Acenaphthen, Fluoren,Phenanthren, Pyren, Anthracen, Fluoranthren) and sum limit value for all 18 PAK's

Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
1-Methylpyrene	2381-21-7	Benzo(g,h,i)-perilene	191-24-2	Dibenzo(a,i)pyrene	189-55-9
Acenaphthene	83-32-9	Benzo(j)fluoranthene*	205-82-3	Dibenzo(a,l)pyrene	191-30-0
Acenaphthylene	208-96-8	Benzo(k)fluoranthene*	207-08-9	Fluoranthene	206-44-0
Anthracene	120-12-7	Chrysene*	218-01-9	Fluorene	86-73-7
Benzo(a)anthracene*	56-55-3	Cyclopenta(c,d)pyrene	27208-37-3	Indeno(1,2,3-cd)pyrene	193-39-5
Benzo(a)pyrene*	50-32-8	Dibenzo(a,e)pyrene	192-65-4	Naphthaline	91-20-3
Benzo(b)fluoranthene*	205-99-2	Dibenzo(a,h)anthracene*	53-70-3	Phenanthrene	85-01-8
Benzo(e)pyrene*	192-97-2	Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0

Quality - Colour fastness

Test method: DIN EN ISO 105 X12, E01, E04; Leather: DIN EN ISO 11641 / 11642 / 11640; dry: 50 cycles; wet and sweat simulant: 20 cycles, Grade 5 = no change, Grade 1 = very strong Color change (Grayscale acc. DIN EN 20105-A02/-A03 ; ISO 105-A02/-A03)

Quality - Odor

Test method: SNV 195 651

Residual chemicals

Test method: DIN CEN ISO/TS 16189 (mod.); EN ISO 17070 (o-Phenylphenol)

EU: guideline 2001/95/EC

Germany: ProdSG; LFGB § 30

Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Formamide	75-12-7	N,N-Dimethylformamide	68-12-2	o-Phenylphenole	90-43-7
N,N-Dimethylacetamide	127-19-5	N-Metyl-2-pyrrolidon (NMP)	872-50-4		

Saliva-Sweat-fastnes

Test method: DIN 53160; Grade 5 = no change, Grade 1 = very strong Color change (Grayscale acc. DIN EN 20105-A02/-A03 ; ISO 105-A02/-A03)

Germany: recommendation BfR XLVII (Federal Institute for Risk Assessment)

Packing

Test method: DIN EN 62321-4/-5 / EPA 3050B / DIN EN ISO 17294-2 / DIN EN ISO 17075 (Heavy metals); CEN ISO/TS 16186 (mod.) (Dimethylfumarate); X-ray fluorescence analysis (RFA) (Cobaltdichloride)

EU: (Cobaltdichloride): guideline 2001/95/EC

EU: (Dimethylfumarate): regulation (EC) 1907/2006; limit value: 0.1 mg/kg

EU: (Heavy metals): guideline 94/62/EC

Germany: VerpackV; ProdSG; LFGB § 30

Parameter	CAS No.	Parameter	CAS No.	Parameter	CAS No.
Lead	7439-92-1	Chrome Vi		Dimethylfumarate	624-49-7
Cadmium	7440-43-9	Cobaltdichloride	7646-79-9	Mercury	7439-97-6