


CERTEST

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RECEIPT 30/11/2017

TESTING DATES FROM 30/11/2017 TO 06/12/2017

COMMITTENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1729135/E1 - Amendment of 11/12/2017

DENOMINATION Analyses purchased by: Giulia
 Article: SILK FABRICS_SILK TWILL (art. 13151) - REF.
 ONGETTA SRL and ITALTEXTIL SARATA SRL
 Colour: WHITE (BOILED OFF)
 Type of Material: Textile
 Notes: 100% SILK_Boiled off

 Delivery Note: /
 Final Customer: BLUMINE
 Requirements: DETOX PROGRAM
 Sampling: done by the client

Sample 01

Test	Pass	Fail	Failure result
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015	X		
Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016	X		
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015	X		
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014	X		
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014	X		
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017	X		
Solvent content by GC-MS - Inhouse Method: CPSD-AN-00100-MTHD ver 36	X		
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06	X		
Determination of Perfluorinated Compounds Inhouse Method: CPSD-AN-00668 V9	X		
Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8	X		
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010	X		
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010	X		
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005	X		
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Inhouse Method: CPSD-AN-00212-MTHD ver 6	X		
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012	X		

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


LAB N. 1480



Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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Sample 02

Test	Pass	Fail	Failure result
Solvent extraction and GC-MS analysis	X		

Pass = Meets Buyer's requirements

Fail = Does not meet Buyer's requirements

-- = Buyer's requirements not defined

The values in brackets represent requirements stated in the document named in the "Requirements" field of the "Denomination" section

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Sample 1729135.01						
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015 <u>Operating Conditions.</u> - Solvent extraction - Determination by GC-MS analysis	4-n- Nonylphenol (4-n-NP) (CAS N. 104-40-5) 4-n-Octylphenol (n-OP) (CAS N. 1806-26-4) 4-tert-Octylphenol (tert-4-OP) (CAS N. 140-66-9) Nonylphenol (NPs) (CAS N. 84852-15-3) tert-Octylphenol (tert-OP) (CAS N. 27193-28-8)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<1 <1 <1 <1 <1	mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 1 1 1		Pass Pass Pass Pass Pass
Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016 <u>Operating Conditions.</u> - Solvent extraction - Determination by LC-MS analysis	Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs) (CAS N. 68412-54-4) Octylphenoethoxylates (Triton X-100), (OPEOs 2-16) (CAS N. 9002-93-1)	< L.O.Q. < L.O.Q.	<1 <1	mg/kg mg/kg	1 1		Pass Pass
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015 <u>Operating Conditions.</u> - Ultrasonic extraction procedure: 60° C for 1h. - Determination by GC-ECNI-MS analysis.	Amount of extracted SCCP (C10-C13) (CAS N.85535-84-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions; German version DIN EN 16711-1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis	Heavy Metals						
	Total Cadmium [Cd] Content	< L.O.Q.	<0,5	mg/kg	0,5		Pass
	Total Lead [Pb] Content	< L.O.Q.	<0,5	mg/kg	0,5		Pass
	Total Mercury [Hg] Content	< L.O.Q.	<0,001	mg/kg	0,001		Pass
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014 <u>Operating Conditions</u> - Extraction in ultrasonic bath - Detection by GC-MS analysis	Phtalates dans le substrat						
	Dibutyl Phthalate (DBP) (CAS N. 84-74-2)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis-2-Ethylhexyl Phthalate (DEHP) (CAS N. 117-81-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8)	< L.O.Q.	<0,001	%	0,001		Pass
	Diundecil Phthalate (DHNUP) (CAS N. 68515-42-4)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6)	< L.O.Q.	<0,001	%	0,001		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5)	< L.O.Q.	<0,001	%	0,001		Pass
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9)	< L.O.Q.	<0,001	%	0,001		Pass
	Dinonyl phthalate (DNP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-propyl phthalate (DPRP)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-octyl phthalate (DIOP)	< L.O.Q.	<0,001	%	0,001		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."	
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017 <u>Operating Conditions</u> - Quantitative Detection: GC-MS - Confirmation by LC-DAD+LC MS	Aromatic amines derived from azodyes on fabric							
	4-Aminobiphenyl (CAS N 92-67-1)	< L.O.Q.	<5	mg/kg	5	(1)	Pass	
	Benzidine (CAS 92-87-5)	< L.O.Q.	<5	mg/kg	5		Pass	
	4-Chloro-o-toluidine (CAS N. 95-69-2)	< L.O.Q.	<5	mg/kg	5		Pass	
	2-Naphthylamine (CAS N. 91-59-8)	< L.O.Q.	<5	mg/kg	5	(1)	Pass	
	o-Aminoazotoluene (CAS 97-56-3)	< L.O.Q.	<5	mg/kg	5		Pass	
	5-nitro-o-toluidine (CAS 99-55-8)	< L.O.Q.	<5	mg/kg	5		Pass	
	4-Chloroaniline (CAS N. 106-47-8)	< L.O.Q.	<5	mg/kg	5		Pass	
	4-methoxy-m-phenylenediamine (CAS 615-05-04)	< L.O.Q.	<5	mg/kg	5		Pass	
	4,4'-methylenedianiline (CAS 101-77-9)	< L.O.Q.	<5	mg/kg	5	MDA	Pass	
	3,3'-Dichlorobenzidine (CAS N. 91-94-1)	< L.O.Q.	<5	mg/kg	5		Pass	
	3,3'-Dimethoxybenzidine (CAS N. 119-90-4)	< L.O.Q.	<5	mg/kg	5		Pass	
	3,3'-Dimethylbenzidine (CAS N. 119-93-7)	< L.O.Q.	<5	mg/kg	5		Pass	
	4,4'-methylenedi-o-toluidine (CAS N. 838-88-0)	< L.O.Q.	<5	mg/kg	5		Pass	
	p-cresidine (CAS 120-71-8)	< L.O.Q.	<5	mg/kg	5		Pass	
	4,4'-Methylene-bis-(2-chloroaniline) (CAS N. 101-14-4)	< L.O.Q.	<5	mg/kg	5		Pass	
	4,4'-Oxydianiline (CAS N 101-80-4)	< L.O.Q.	<5	mg/kg	5		Pass	
	4,4'-Thiodianiline (CAS N. 139-65-1)	< L.O.Q.	<5	mg/kg	5		Pass	
	o-Toluidine (CAS 95-53-4)	< L.O.Q.	<5	mg/kg	5		Pass	
	4-methyl-m-phenylenediamine (CAS 95-80-7)	< L.O.Q.	<5	mg/kg	5	TDA	Pass	
	2,4,5-Trimethylaniline (CAS N. 137-17-7)	< L.O.Q.	<5	mg/kg	5		Pass	
	o-anisidine (CAS 90-04-0)	< L.O.Q.	<5	mg/kg	5		Pass	
	4-Aminoazobenzene (CAS N. 60-09-3)	< L.O.Q.	<5	mg/kg	5		Pass	
	2,4- Xylidine (CAS 95-68-1)	< L.O.Q.	<5	mg/kg	5		Pass	
	2,6-Xylidine (CAS N. 87-62-7)	< L.O.Q.	<5	mg/kg	5		Pass	
	Solvent content by GC-HS - Inhouse Method: CPSD-AN-00100-MTHD ver 36 <u>Operating Conditions</u> - Headspace GC-MS	Chlorinated Solvents						
		Dichloromethane (CAS N.75-09-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass

Continuing...

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	Chloroform (CAS N. 67-66-3) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	Tetrachloromethane (CAS N. 56-23-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1,2-Trichloroethane (CAS 79-00-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1-Dichloroethane (CAS N. 75-34-3) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,2-Dichloroethane (CAS N. 107-06-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	Trichloroethylene (CAS N. 79-01-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	Perchloroethylene (CAS N.127-18-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1,1-Trichloroethane (CAS N.71-55-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1,1,2-Tetrachloroethane (CAS N. 630-20-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1,2,2-Tetrachloroethane (CAS N. 79-34-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	Pentachloroethane (CAS N.76-01-7) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,1-Dichloroethylene (CAS N. 75-35-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	1,2,3-Trichloropropane (CAS N96-18-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
	Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06 <u>Operating Conditions.</u> - Detection by GC-MS analysis	Pentachlorophenol (PCP) (CAS N. 87-86-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
		2,4,6-TriChlorophenol (2,4,6-TCP) (CAS N. 88-06-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
3,4,5-TriChlorophenol (3,4,5-TCP) & 2,3,4-TriChlorophenol (2,3,4-TCP) (CAS N.609-19-8 & 15950-66-0)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,5-TriChlorophenol (2,3,5-TCP) (CAS N. 933-78-8)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,6-TriChlorophenol (2,3,6-TCP) (CAS N. 933-75-5) & 2,4,5-TriChlorophenol (2,4,5-TCP) (CAS N95-95-4)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP) (CAS N. 935-95-5)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP) (CAS N. 58-90-2)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP) (CAS N. 4901-51-3)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,4- Dichlorophenol (CAS N. 120-83-2)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	
2,5 Dichlorophenol (CAS N.583-78-8)		< L.O.Q.	<0,05	mg/kg	0,05		Pass	

Continuing...

Approved on behalf of BUREAU VERITAS CERTEST srl by:
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	3,5- Dichlorophenol (CAS N.591-35-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3- Dichlorophenol (CAS N.576-24-9)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3,4- Dichlorophenol (CAS N.95-77-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	Monochlorophenol	< L.O.Q.	<0,05	mg/kg	0,05		Pass
Determination of Perfluorinated Compounds Inhouse Method: CPSD-AN-00668 V9 Operating Conditions -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ	Perfluorinated Chemicals (PFCs)						
	Perfluoro-n-octanoic acid (PFOA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-nonanoic acid (PFNA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutanesulfonic acid (PFBS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorohexanesulfonic acid (PFHxS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutyric acid (PFBA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-heptanoic acid (PFHpA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-decanoic acid (PFDA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoroundecanoic acid (PFUnA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorododecanoic acid (PFDoA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotridecanoic acid (PFTTrA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotetradecanoic acid (PFTeA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorodecanesulfonic acid (PFDS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorooctane sulfonamide (PFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	N-methylperfluoro-1-octansulfonamide (N-MeFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (*)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8 <u>Operating Conditions</u> -Solvent extraction and determination by GC-MS QQQ	2- Perfluorobutylethanol (4:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (*)	< L.O.Q.	<10	µg/m2	10		Pass
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010 <u>Operating Conditions</u> - Methanol ultrasonic extraction, 2h at 60°C - Determination by LC-MS MS	Perfluorooctanesulfonic acid (PFOS) (*)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of Perfluorinated Compounds Inhouse Method: CPSD-AN-00668 V9 <u>Operating Conditions</u> -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ	Perfluoro-1-octanesulfonyl fluoride (POSF) (*)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis	1,2-Dichlorobenzene (CAS N.95-50-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	1,3-Dichlorobenzene (CAS N.541-73-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	1,4-Dichlorobenzene (CAS N.106-46-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
	1,2,3-Trichlorobenzene (CAS N.87-61-6) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


LAB N. 1480



Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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COMMITTENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1729135/E1 - Amendment of 11/12/2017

TEST METHOD	PARAMETER	RESULT ' "	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."	
	1,2,4 Trichlorobenzene (CAS N.120-82-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,3,5-Trichlorobenzene (CAS N.108-70-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5-Tetrachlorobenzene (CAS N.95-94-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Pentachlorobenzene (CAS N.608-93-5) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Hexachlorobenzene (CAS N.118-74-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Chlorobenzene (CAS N.108-90-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	a,a-Dichlorotoluene (CAS N.98-87-3) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	alpha, alpha, alpha 4-tetrachlorotoluene (CAS N.5216-25-1) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Benzotrighloride (CAS N.98-07-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Benzyl chloride (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass	
	Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis	Allergenus Dyes						
		Acid Red 114 (CAS N. 3761-53-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Acid Red 26 (CAS N. 3761-53-3) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Basic Blue 26 (CAS N. 2580-56-5) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Basic Green 4 (CAS N. 569-64-2) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Basic Red 9 (CAS N. 569-61-9) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Basic Violet 14 (CAS N. 632-99-5) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Direct Black 38 (CAS N. 1937-37-7) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Direct Blue 6 (CAS N. 2602-46-2) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Direct Brown 95 (CAS N.16071-86-6) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Direct Red 28 (CAS N. 573-58-0) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 1 (CAS N. 2475-45-8) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 102 (CAS N. 12222-97-8) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 106 (CAS N. 12223-01-7)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 124 (CAS N. 61951-51-7)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 26 (CAS N. 3860-63-7) (*)		< L.O.Q.	<10	mg/kg	10		Pass	
Disperse Blue 3 (CAS N. 2475-46-9) (*)		< L.O.Q.	<10	mg/kg	10		Pass	

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Disperse Blue 7 (CAS N. 3179-90-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Brown 1 (CAS N. 23355-64-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 1 (CAS N. 2581-69-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 3 (CAS N. 730-40-5)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 11 (CAS N. 82-28-0)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 149 (CAS N. 151126-94-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 37/59/76 (CAS N. 13301-61-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 1 (CAS N. 2872-52-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 11 (CAS N. 2872-48-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 17 (CAS N. 3179-89-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 1 (CAS N. 119-15-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 3 (CAS N. 2832-40-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 9 (CAS N. 6373-73-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 23 (CAS N. 6250-23-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 39 (CAS N. 12236-29-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 49 (CAS N. 54824-37-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 2 (CAS N. 60-11-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Acid Violet 49 (CAS N. 1694-09-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Violet 1 (CAS N. 8004-87-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 15 (CAS N. 2429-74-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 218 (CAS N.28407-37-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 35 (CAS N. 12222-75-2)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 1 (CAS N. 60-09-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 3 (CAS N. 97-56-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Inhouse Method: CPSD-AN-00212-MTHD ver 6 <u>Operating Conditions</u> - Acid Sweat Extraction - Determination by analysis UV-VIS	Total Hexavalent Chromium (Cr-VI) (*)	< L.O.Q.	<0,5	mg/kg	0,5		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 <u>Operating Conditions</u> - Methanol extraction + derivatization - Detection by GC-MS analysis	Organotin compounds						
	Dibutyl tin (DBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Dimethyltin (DMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Diocetyl tin (DOT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Diphenyltin (DPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Methyl tin (MeT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Monobutyl tin (MBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Monooctyl tin (MOT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Phenyltin tin (TPhT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tetrabutyl tin (TeBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tetraethyltin (TeET) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tributyl tin (TBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tricyclohexyltin (TCyHT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Trimethyl tin (TMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Triocetyl tin (TOT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Triphenyl tin (TPhT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tripropyltin (TPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Sample 1729135.02						
Solvent extraction and GC-MS analysis	Flame retardants						
	Monobromo biphenyls (MonoBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Dibromo biphenyls (DiBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tribromo biphenyls (TriBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tetrabromo biphenyls (TetraBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Pentabromo biphenyls (PentaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Hexabromo biphenyls (HexaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Heptabromo biphenyls (HeptaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Octabromo biphenyls (OctaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Nonabromo biphenyls (NonaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Decabromo biphenyl (DecaBB) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Monobromo diphenyl ethers (MonoBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Dibromo diphenyl ethers (DiBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tribromo diphenyl ethers (TriBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tetra-bromodiphenyl ether (TetraBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Penta-bromodiphenyl ether (PentaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Hexabromo diphenyl ethers (HexaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Heptabromo diphenyl ethers (HeptaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Octa-bromodiphenyl ether (OctaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Nonabromo diphenyl ethers (NonaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Decabromodiphenyl ether (DecaBDE) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tris (2,3-dibromopropyl)-phosphate (TRIS) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tris(2-chloroethyl)phosphate (TCEP) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tetrabromo-bisphenol A (TBBPA) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Exabromocyclododecane (HBCDD) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tris (1-aziridinyl)-phosphine oxide (TEPA) (CAS N. 545-55-1) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Tri-o-cresyl phosphate (*)	< L.O.Q.	<10	mg/kg	10	BVG	Pass
	Boric acid (*)	< L.O.Q.	<50	mg/kg	50	BVG	Pass
	Sodium tetraborate (*)	< L.O.Q.	<2	mg/kg	2	BVG	Pass
	Boron trioxide (*)	< L.O.Q.	<2	mg/kg	2	BVG	Pass
	Antimony trioxide (*)	< L.O.Q.	<1	mg/kg	1	BVG	Pass

Continuing...

Approved on behalf of BUREAU VERITAS CERTEST srl by:
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 COMMITMENT
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VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1729135/E1 - Amendment of 11/12/2017

Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphthylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

MDA =

In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

TDA = In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 2,4-toluen-diamine (TDA, CAS 95-80-7) are released from the PU component and not from a banned azo colorant.

BVG = Test executed at Bureau Veritas Germany - Wilhelm-Hennemann-Str. 8, 19061 Schwerin, Germany

BV-Sch: Test executed at Bureau Veritas Germany - Wilhelm-Hennemann-Str. 8, 19061 Schwerin, Germany

In case of non-indication from the client of the category of the material to be tested, the laboratory will identify it and will test it according to the specifics of the defined category.

" The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

Limits: Values indicated in the Limits column refer to the requirements stated in the document named in the "Requirements" field of the "Denomination" section

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

The evaluations of change in color are carried out in accordance with ISO 105-A02 (or GB/T 250 for Chinese market methods), the evaluations of color staining are carried out in accordance with ISO 105-A03 (or GB/T 251 for Chinese market methods).

BWS: Blue Wool Scale

GSR: Grey Scale Rating

The tests marked by an asterisk (*) are not part of the ACCREDIA accreditation.

Opinions and interpretations are not part of the ACCREDIA accreditation.

Amendment of test report number 1729135

This report has been issued by Bureau Veritas Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer only to the sample submitted to tests in our laboratory and not the whole lot they represent. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial re production of this document is allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for one year if not otherwise required.

The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10.

Whenever the supplied sample amount is not enough to perform all the trials required by the Method, the laboratory will perform the higher number of tests with the provided material.

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