

TEST REPORT N° 16/34994 (EN)

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Mod.018 Rev. 2 del 12.10.2015

WEB Request Number	
Receipt Number	16/35058
Receipt date	14/10/16
Test beginning date	14/10/16
Test end date	19/10/16
Document issued on	19/10/16

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SAMPLE IDENTIFICATION:

A Art. Insulation TWINS

THIS DOCUMENT CONTAINS THE FOLLOWING TESTS:

Code	Test	Test Method
CE0019	Textiles, leather: Determination of chlorophenols (PCP - TeCP - TCP - DCP - MCP - OPP)	Tessili: UNI 11057:2003; GB/T 18414.1:2006 - Cuoio: UNI EN ISO 17070:2015
CE0029	Determination of Phthalates	CPSC-CH-C1001-09.3:2010
CE0062 *	Determination of Cadmium, Lead, Mercury and Hexavalent Chromium	In-House Method (EN 1122/CPSC-CH-E1002-12/UNI EN 17075)
CE0065	Determination of flame retardants	GB/T 24279-2009
CE0070	Textiles: determination of certain aromatic amines derived from azo colourants	UNI EN 14362-1:2012 - 35 LMBG - Gliederungs. nr B-82.02-2-4
CE0080	Determination of the content of bonds based on chlorobenzene and chlorotoluene	DIN 54232:2010
CE0081 *	Determination of Chlorinated Paraffins (SCCP - M CCP - LCCP)	Metodo Interno MIP_CE0081
CE0084	Determination of perfluorinated compounds	UNI CEN/TS 15968:2010
CE0120	Determination of disperse allergenic dyestuffs	DIN 54231-2005
CE0121	Determination of carcinogenic dyestuffs	DIN 54231-2005
CE0123	Textiles - Leather: Determination of Ethoxylated Alkylphenols (APEOS)	ISO 18254-1:2016 - ISO 18218-1:2015
CE0124	Textiles, Leather, Fur: Determination of Alkylphenols (AP)	MIP_CE0124_rev01:2015 + ISO 18857-1:2005 (metodo: GC-MSMS)
CE0130	Determination of Organotin Compounds in footwear materials (textiles, leather, polymers)	ISO/TS 16179:2012
CE0210 *	Determination of Volatile Organic Compound (VOC)	In-house method (ref. GB 19340-2003)

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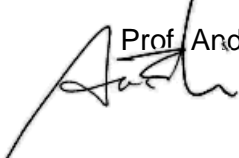

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Insulation TWINS

Tests results refer only to tested samples.
On each page there is the Institute dry stamp.
Tested samples are available for 3 months.

* Test not accredited by ACCREDIA

The Analysts	Technical Manager
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Beginning of Test Report

Summary Results Evaluation

MRSL Detox Prodotti/Articoli - rev.01 - 01/2016

Rev.1.0 -25/03/2016

Test Results :

Sample Identification		Art. Insulation TWINS	
Item	Part	Pass	Fail
A	Art. Insulation TWINS	66 Pass	3 Fail
	CE0062 - Lead<=1		7,60 mg/kg
	CE0123 - Ethoxylated Nonylphenols (NPEO3-20)<=1		1,2 mg/kg
	CE0123 - Sum of APEOS<=1		1,2 mg/kg

Evaluation Results

MRSL Detox Prodotti/Articoli - rev.01 - 01/2016

Rev.1.0 -25/03/2016

Test Results :

Sample Identification		Art. Insulation TWINS			
Item	Test Method	Parameter	Limits	Value	P/F
CE0019	Textiles, leather: Determination of chlorophenols (PCP - TeCP - TCP - DCP - MCP - OPP)	2,3,4,5-Tetrachlorophenol (TeCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3,4,6-Tetrachlorophenol (TeCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3,4-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3,5,6-Tetrachlorophenol (TeCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3,5-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3,6-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,3-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,4,5-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,4,6-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,4-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,5-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	2,6-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	3,4,5-Trichlorophenol (TriCP)	<=0,05	Not Detectable	PASS
CE0019	"	3,4-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	3,5-Dichlorophenol (DiCP)	<=0,05	Not Detectable	PASS
CE0019	"	3-Chlorophenol (MoCP)	<=0,05	Not Detectable	PASS
CE0019	"	4-Chlorophenol (MoCP)	<=0,05	Not Detectable	PASS
CE0019	"	ortho-Phenylphenol (OPP)	<=0,05	Not Detectable	PASS

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CE0019	"	Pentachlorophenol (PCP)	<=0,05	Not Detectable	PASS
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CE0029	Determination of Phthalates	Sum of Phthalate	<=10	Not Detectable	PASS
CE0062	Determination of Cadmium, Lead, Mercury and Hexavalent Chromium	Cadmium	<=1	Not Detectable	PASS
CE0062	"	Hexavalent Chromium (Cr VI)	<=1	Not Detectable	PASS
CE0062	"	Lead	<=1	7,60 mg/kg	FAIL
CE0062	"	Mercury	<=1	Not Detectable	PASS
CE0065	Determination of flame retardants	Total	<=5	Not Detectable	PASS
CE0070	Textiles: determination of certain aromatic amines derived from azo colourants	Aromatic amine	<=1	Not Detectable	PASS
CE0080	Determination of the content of bonds based on chlorobenzene and chlorotoluene	Total	<=0,5	Not Detectable	PASS
CE0081	Determination of Chlorinated Paraffins (SCCP - MCCP - LCCP)	Short chain chlorinated paraffins (C10-C13)	<=1	Not Detectable	PASS
CE0120	Determination of disperse allergenic dyestuffs	Allergenic disperse dye	Negative	Negative	PASS
CE0121	Determination of carcinogenic dyestuffs	Carcinogen dye	Negative	Negative	PASS
CE0123	Textiles - Leather: Determination of Ethoxylated Alkylphenols (APEOS)	Ethoxylated Nonylphenols (NPEO3-20)	<=1	1,2 mg/kg	FAIL
CE0123	"	Ethoxylated Octylphenol (OPEO3-20)	<=1	Not Detectable	PASS
CE0123	"	Nonylphenol diethoxylate (NPEO2)	<=1	Not Detectable	PASS
CE0123	"	Nonylphenol monoethoxylate (NPEO1)	<=1	Not Detectable	PASS
CE0123	"	Octylphenol diethoxylate (OPEO2)	<=1	Not Detectable	PASS
CE0123	"	Octylphenol monoethoxylate (OPEO1)	<=1	Not Detectable	PASS
CE0123	"	Sum of APEOS	<=1	1,2 mg/kg	FAIL
CE0124	Textiles, Leather, Fur: Determination of Alkylphenols (AP)	Nonylphenol (NP)	<=1	Not Detectable	PASS
CE0130	Determination of Organotin Compounds in footwear materials (textiles, leather, polymers)	Dibutyltin (DBT)	<=1	Not Detectable	PASS
CE0130	"	Diocetyl tin (DOT)	<=1	Not Detectable	PASS
CE0130	"	Diphenyl Tin (DPhT)	<=1	Not Detectable	PASS
CE0130	"	Dipropyl Tin (DProp)	<=1	Not Detectable	PASS
CE0130	"	Metyl Tin (Met)	<=1	Not Detectable	PASS
CE0130	"	Monobutyltin (MBT)	<=1	Not Detectable	PASS
CE0130	"	Monooctyl Tin (MOT)	<=1	Not Detectable	PASS
CE0130	"	Tetrabutyl Tin (TeBT)	<=1	Not Detectable	PASS
CE0130	"	Tributyltin (TBT)	<=1	Not Detectable	PASS
CE0130	"	Tricyclohexyl Tin (TCyT)	<=1	Not Detectable	PASS
CE0130	"	Triphenyltin (TPhT)	<=1	Not Detectable	PASS
CE0130	"	Tripropyl Tin (TPT)	<=1	Not Detectable	PASS
CE0210	Determination of Volatile Organic Compound (VOC)	1,2,3 Trichloropropane	<=0,5	Not Detectable	PASS
CE0210	"	1,2-Dichloroethane	<=0,5	Not Detectable	PASS
CE0210	"	1-Methyl-2-Pyrrolidone	<=0,5	Not Detectable	PASS
CE0210	"	2-Ethoxyethyl acetate	<=0,5	Not Detectable	PASS
CE0210	"	2-Phenyl-2-Propanol	<=0,5	Not Detectable	PASS
CE0210	"	Acetophenone	<=0,5	Not Detectable	PASS
CE0210	"	Benzene	<=0,5	Not Detectable	PASS

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CE0210	"	Bis-(2-methoxyethyl) ether	<=0,5	Not Detectable	PASS
CE0210	"	Cyclohexanone	<=0,5	Not Detectable	PASS
CE0210	"	Ethyl Benzene	<=0,5	Not Detectable	PASS
CE0210	"	Methylethyl ketone	<=0,5	Not Detectable	PASS
CE0210	"	N,N dimetyl acetamide	<=0,5	Not Detectable	PASS
CE0210	"	Naphtalene	<=0,5	Not Detectable	PASS
CE0210	"	Styrene	<=0,5	Not Detectable	PASS
CE0210	"	Tetrachloro ethylen	<=10	Not Detectable	PASS
CE0210	"	Toluene	<=0,5	Not Detectable	PASS
CE0210	"	Trichloro ethylen	<=0,5	Not Detectable	PASS
CE0210	"	Xylene	<=0,5	Not Detectable	PASS
CE0084	Determination of perfluorinated compounds				PASS

CE0124	Textiles, Leather, Fur: Determination of Alkylphenols (AP)
Test methods	MIP_CE0124_rev01:2015 + ISO 18857-1:2005 (metodo: GC-MSMS)

Rev.1.0 -25/03/2016

Extraction Toluene - 60min - 40°C - Ultrasonic bath
 Detection method GC-MSMS
 Detection limit (LOD) 1 mg/kg
 Testing date 18/10/2016

Test Results :

Sample identification	Art. Insulation TWINS	
Alkylphenols (AP)	CAS nr.	Amount
NonylPhenol (NP) mixed isomers	25154-52-3 / 104-40-5 11066-49-2 / 84852-15-3	Non detectable
OctylPhenol (OP) mixed isomers	27193-28-8 / 140-66-9 1806-26-4	Non detectable

Note: Not Detectable < LOD

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CE0123	Textiles - Leather: Determination of Ethoxylated Alkylphenols (APEOS)
<i>Test methods</i>	ISO 18254-1:2016 - ISO 18218-1:2015

Rev.1.0 -25/03/2016

Extraction Methanol - 60min - 40°C - Ultrasonic bath
Detection method LC-MSMS / LC-Q-TOF
Limit of detection LOD 1 mg/kg
Testing date 18/10/2016

Test Results :

Sample identification:	Art. Insulation TWINS	
Ethoxylated alkylphenols (APEOS)	CAS nr.	Amount
Octylphenol monoethoxylate (OPEO ₁)	2315-67-5	Non detectable
Octylphenol diethoxylate (OPEO ₂)	2315-61-9	Non detectable
Nonylphenol monoethoxylate (NPEO ₁)	104-35-8	Non detectable
Nonylphenol diethoxylate (NPEO ₂)	20427-84-3	Non detectable
Ethoxylated Octylphenols (OPEO ₃₋₂₀)	9002-93-1 / 9036-19-5 / 68987-90-6 / 26636-32-8	Non detectable
Ethoxylated Nonylphenols (NPEO ₃₋₂₀)	9016-45-9 / 26027-38-3 37205-87-1 / 68412-54-4 / 127087-87-0	1,2 mg/kg
<i>Sum ethoxylated alkylphenols (sum APEOS)</i>		1,2 mg/kg

Note: Not Detectable < LOD

CE0029	Determination of Phthalates
<i>Test methods</i>	CPSC-CH-C1001-09.3:2010

Rev.1.0 -25/03/2016

Detection Limit (LOD) DIBP, DBP, BBP, DPP, DIPP, DEHP, DEP, DMEP = 1 mg/kg (0,0001%) - DIHP, DHNUP, DNOP, DINP, DIDP, DCHP, DIOP, DNP, DETP, DPRP, PIPP, PBLB = 5 mg/kg (0,0005%)
Quantification Limit (LOQ) DIBP, DBP, BBP = 10 mg/kg (0,0010%) - DPP, DIPP = 5 mg/kg (0,0005%) - DEHP, DEP, DMEP = 10 mg/kg (0,0010%) - DIHP, DHNUP, DNOP, DINP, DIDP, DCHP, DIOP, DNP, DETP, DPRP, PIPP, PBLB = 50 mg/kg (0,0050%)
Testing date 19/10/2016

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Test Results :

<i>Sample Identification</i>	Art. Insulation TWINS
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<i>Phthalate</i>		<i>Cas nr.</i>	<i>Content</i>	
Di-iso-butylphthalate	DIBP	84-69-5	Not Detected	Not Detected
Dibutylphthalate	DBP	84-74-2	Not Detected	Not Detected
Butylbenzylphthalate	BBP	85-68-7	Not Detected	Not Detected
Di-n-pentylphthalate	DPP	131-18-0	Not Detected	Not Detected
Di-isopentylphthalate	DIPP	605-50-5	Not Detected	Not Detected
Di-(2-ethylexyl)-phthalate	DEHP	117-81-7	Not Detected	Not Detected
Di-n-hexylphthalate	DEP	84-75-3	Not Detected	Not Detected
Bis-(2-methoxyethyl)-phthalate	DMEP	117-82-8	Not Detected	Not Detected
di-(C6-C8 alkyl)-phthalate branched	DIHP	71888-89-6	Not Detected	Not Detected
Di-(C7-C11 alkyl)-phthalate linear + branched	DHNUP	68515-42-4	Not Detected	Not Detected
Di-n-octylphthalate	DNOP	117-84-0	Not Detected	Not Detected
Di-iso-nonylphthalate	DINP	28553-12-0	Not Detected	Not Detected
Di-iso-decylphthalate	DIDP	26761-40-0	Not Detected	Not Detected
Di-cyclohexylphthalate	DCHP	84-61-7	Not Detected	Not Detected
Di-iso-octylphthalate	DIOP	27554-26-3	Not Detected	Not Detected
Di-nonylphthalate	DNP	84-76-4	Not Detected	Not Detected
Di-ethylphthalate	DETP	84-66-2	Not Detected	Not Detected
Di-n-propylphthalate	DPRP	131-16-8	Not Detected	Not Detected
N-pentyl-iso-pentyl phthalate	PIPP	776297-69-9	Not Detected	Not Detected
1,2-benzenedicarboxylic acid, dipentyl ester, branched and linear	PBLB	84777-06-0	Not Detected	Not Detected
TOTAL			0 mg/kg	0,000 %

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CE0065	Determination of flame retardants
<i>Test methods</i>	GB/T 24279-2009

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Detection limit detection limit: 0.01mg/kg - positive if > 0,01 mg/kg. Negative if <= 0,01 mg/kg
Testing conditions organic solvent - ultrasonic bath - 60°C - 1h
Testing equipment GC-MSMS / LC-MSMS
Testing date 18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
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SUBSTANCE	CAS N.	Limit of detection	Result
<i>Tris-(2,3-dibromopropyl)- phosphate (TRIS)</i>	126-72-7	0,01 mg/kg	Not detectable
<i>Tris - (aziridinyl) - phosphineoxide (TEPA)</i>	5455-55-1	0,01 mg/kg	Not detectable
<i>Tris-(2-chloroethyl) Phosphate (TCEP)</i>	115-96-8	0,01 mg/kg	Not detectable
<i>Polybromobiphenyls (PBB)</i>	59536-65-1	0,01 mg/kg	Not detectable
<i>Bis(2,3-dibromopropyl ether) of tetrabromobisphenol (BDBPT)</i>	21850-44-2	0,01 mg/kg	Not detectable
<i>Bis(2,3-dibromopropyl) phosphate (BBP)</i>	5412-25-9	0,01 mg/kg	Not detectable
<i>Pentabromodiphenyl ether (PBDE)</i>	32534-81-9	0,01 mg/kg	Not detectable
<i>Octabromodiphenyl Ether (OctaBDE)</i>	32536-52-0	0,01 mg/kg	Not detectable
<i>Decabromodiphenyl Ether (DecaBDE)</i>	1163-19-5	0,01 mg/kg	Not detectable
<i>Hexabromocyclododecane (HBCDD)</i>	134237-50-6 / 134237-51-7 / 134237-52-8 / 25637-99-4 / 3194-55-6	0,01 mg/kg	Not detectable
<i>Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)</i>	13674-87-8	0,01 mg/kg	Not detectable
<i>Tris (1-chloro-2-propyl) phosphate (TCPP)</i>	13674-84-5	0,01 mg/kg	Not detectable
<i>2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (TBB)</i>	183658-27-7	0,01 mg/kg	Not detectable
<i>tetrabromophthalate (TBPH)</i>	26040-51-7	0,01 mg/kg	Not detectable
<i>Triphenyl phosphate (TPP)</i>	115-86-6	0,01 mg/kg	Not detectable
<i>Trimethyl phosphate(TMP)</i>	512-56-1	0,01 mg/kg	Not detectable
<i>Tetrabromobisphenol A (TBBPA)</i>	79-94-7	0,01 mg/kg	Not detectable
<i>2,2-bis(bromomethyl)-1,3-propanediol (BBMP)</i>	3296-90-0	0,01 mg/kg	Not detectable
<i>Tetrabromo diphenyl ethers (TetraBDE)</i>	40088-47-9	0,01 mg/kg	Not detectable
<i>Hexabromo diphenyl ethers (HexaBDE)</i>	36483-60-0	0,01 mg/kg	Not detectable
<i>Heptabromo diphenyl ethers (HeptaBDE)</i>	68928-80-3	0,01 mg/kg	Not detectable
<i>Nonabromo diphenyl ethers (NonaBDE)</i>	63936-56-1	0,01 mg/kg	Not detectable

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CE0070	Textiles: determination of certain aromatic amines derived from azo colourants
<i>Test methods</i>	UNI EN 14362-1:2012 - 35 LMBG - Gliederungs. nr B-82.02-2-4
<i>Test environment</i>	GC-MSMS/LC-MSMS - LOD: 1 mg/kg / Limit: 30 ppm (mg/kg) – (Reg. 1907/2006, All. XVII, n. 43 e Annex 8) Rev.1.0 -25/03/2016
<i>Test method</i>	Textile (generic) - UNI EN 14362-1:2012 - § 35 LMBG (B 82.02-2)
<i>Testing date</i>	18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
<i>Aromatic Amines</i>	NOT DETECTABLE (< 1 mg/kg)
<i>Test result</i>	NEGATIVE
<i>(According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted).</i>	

<i>id.</i>	<i>Aryl amines</i>	<i>Notes</i>	<i>CAS nr.</i>	<i>id.</i>	<i>Aryl amines</i>	<i>Notes</i>	<i>CAS nr.</i>
1	Biphenyl-4-ylamin ; aminobiphenyl ; xenylamine	4- (1) (2)	92-67-1	12	3,3-dimethylbenzidine ; 4,4'-bi-o-toluidine		119-93-7
2	Benzidine		92-87-5	13	4,4'-methylenedi-o-toluidine		838-88-0
3	4-chloro-o-toluidine		95-69-2	14	6-methoxy-m-toluidine ; p-cresidine		120-71-8
4	2-naphtylamine	(1) (2)	91-59-8	15	4,4'-methylene-bis- (2-chloro-aniline) ; 2,2'-dichloro-4,4'-methylenedianiline		101-14-4
5	o-aminoazotoluene ; 4-amino-2',3'-dimethylazobenzene ; 4-o-tolylazo-otoluidine	(4)	97-56-3	16	4,4'-oxydianiline		101-80-4
6	5-nitro-o-toluidine	(5)	99-55-8	17	4,4'-thiodianiline		139-65-1
7	4-chloroaniline		106-47-8	18	o-toluidine ; 2-aminotoluene		95-53-4
8	4-methoxy-m-phenylenediamine	(1) (3)	615-05-4	19	4,4'-methylenedianiline ; 4,4'-diaminodiphenylmethane	(6)	101-77-9
9	4-methyl-m-phenylenediamine	(6)	95-80-7	20	2,4,5-trimethylaniline		137-17-7
10	3,3'-dichlorobenzidine ; 3,3'-dichlorobiphenyl-4 ; 4'-ylenediamine		91-94-1	21	o-anisidine ; 2-methoxyaniline		90-04-4
11	3,3'-dimethoxybenzidine ; o-dianisidine		119-90-4	22	4-amino azobenzene	(7)	60-09-3

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Note:

- (1) = The use of these azo colorants cannot be reliably ascertained without additional informations (e.g. chemical structure of the used colorant)
- (2) = the product from which the sample was taken may have been coloured with colorants whose structures contains the amines but no azo colorants (e.g. sulphurated naphtylamines).
- (3) = the product from which the sample was taken may have been coloured with azo colorants whose structures does not contain preformed 4-methoxy-m-phenylenediamine but 2-amino-4-nitroanisole
- (4) = may be further reduce and detected as o-toluidine
- (5) = may be further reduce and detected as 4-methyl-m-phenylenediamine
- (6) = These amines may be generate, under the condition of this method, from degradation of polyuretane components (e.g. resins, coatings, foams, elastomeric fibers, etc)
- (7) = azo colourants that are able to form 4-amino-azobenzene generate, under the conditions of this method, aniline and 1-4-phenylenediamine

CE0120	Determination of disperse allergenic dyestuffs
Test methods	DIN 54231-2005

Rev.1.0 -25/03/2016

Testing condition	Methanol - 30min - Ultrasonic bath
Testing equipment	TLC / LC-DAD / LC-MS
Limit of detection	Detection limit: 1 mg/kg for LC-MSMS analysis.
Testing date	18/10/2016

Test Results :

Sample identification	Art. Insulation TWINS		
Allergenic dyes	Colour Index	CAS number	Result
DISPERSE BLUE 1	64.500	2475-45-8	Not detectable
DISPERSE BLUE 3	61.505	2475-46-9	Not detectable
DISPERSE BLUE 7	62.500	3179-90-6	Not detectable
DISPERSE BLUE 26	63.305	3860-63-7	Not detectable
DISPERSE BLUE 35		12222-75-2	Not detectable
DISPERSE BLUE 102		12222-97-8	Not detectable
DISPERSE BLUE 106		12223-01-7	Not detectable
DISPERSE BLUE 124		61951-51-7	Not detectable
DISPERSE BROWN 1	11.152	23355-64-8	Not detectable
DISPERSE ORANGE 1	11.080	2581-69-3	Not detectable
DISPERSE ORANGE 3	11.005	730-40-5	Not detectable
DISPERSE ORANGE 76/37	11.132	12223-33-5	Not detectable
DISPERSE ORANGE 149		85136-74-9	Not detectable
DISPERSE YELLOW 1	10.345	119-15-3	Not detectable
DISPERSE YELLOW 3	11.855	2832-40-8	Not detectable
DISPERSE YELLOW 9	10.375	6373-73-5	Not detectable
DISPERSE YELLOW 23		6250-23-3	Not detectable
DISPERSE YELLOW 39		12236-29-2	Not detectable
DISPERSE YELLOW 49		54824-37-2	Not detectable
DISPERSE RED 1	11.110	2872-52-8	Not detectable
DISPERSE RED 11	62.015	2872-48-2	Not detectable
DISPERSE RED 17	11.210	3179-89-3	Not detectable

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<i>Disperse dyes</i>	<i>Colour Index</i>	<i>CAS number</i>	<i>Result</i>
DISPERSE ORANGE 61 (*)	11.1355		Not detectable
DISPERSE BROWN 4 (1:1) (*)	11.152:1		Not detectable

(*) Note	The following dyes are NOT present in the allergenic dyes-list:
	<ul style="list-style-type: none"> • DISPERSE ORANGE 61 • DISPERSE BROWN 4 (then DISPERSE BROWN 1:1) <p><i>DISPERSE BROWN 1:1 molecule is very similar to DISPERSE BROWN 1; DISPERSE ORANGE 61 molecule is very similar to DISPERSE ORANGE 76/37.</i></p>

CE0121	Determination of carcinogenic dyestuffs
<i>Test methods</i>	DIN 54231-2005

Rev.1.0 -25/03/2016

Testing conditions organic solvent - ultrasonic bath - 60°C - 1h
Testing equipment TLC / LC-DAD / LC-MS
Limit of detection Detection limit: 1 mg/kg for LC-MSMS analysis.
Testing date 18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
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<i>Carcinogenic dyes</i>	<i>Colour Index</i>	<i>CAS number</i>	<i>Result</i>
ACID RED 26	16.150	3761-53-3	Not detectable
BASIC RED 9	42.500	569-61-9	Not detectable
DIRECT BLACK 38	30.235	1937-37-7	Not detectable
DIRECT BLUE 6	22.610	2602-46-2	Not detectable
DIRECT RED 28	22.120	573-58-0	Not detectable
DISPERSE BLUE 1	64.500	2475-45-8	Not detectable
DISPERSE YELLOW 3	11.855	2832-40-8	Not detectable
BASIC VIOLET 14	42.510	632-99-5	Not detectable
DISPERSE ORANGE 11	60.700	82-28-0	Not detectable
BASIC BLUE 26	44045	2580-56-5	Not detectable
BASIC GREEN 4 (as chloride)	42000	569-64-2	Not detectable
BASIC GREEN 4 (as oxalate)	42000	2437-29-8	Not detectable
BASIC GREEN 4	42000	10309-95-2	Not detectable
DIMETHYL YELLOW	11020	60-11-7	Not detectable
SOLVENT YELLOW 3	11160	97-56-3	Not detectable
SOLVENT YELLOW 14	12065	842-07-9	Not detectable
BASIC VIOLET 1	42535	8004-87-3	Not detectable
DIRECT BLUE 15	24400	2429-74-5	Not detectable
ACID RED 114	23635	6459-94-5	Not detectable
ACID VIOLET 49	42640	1694-09-3	Not detectable
SOLVENT YELLOW 1	11000	60-09-3	Not detectable
DIRECT BLUE 218	24401	28407-37-6	Not detectable
DIRECT BROWN 95	30145	16071-86-6	Not detectable

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CE0130	Determination of Organotin Compounds in footwear materials (textiles, leather, polymers)
Test methods	ISO/TS 16179:2012

Rev.1.0 -25/03/2016

Testing conditions methanol / acetate buffer / sodium tetraethylborate as derivatization agent
 Testing equipment GC-MSMS
 Testing date 18/10/2016

Test Results :

Sample identification	Art. Insulation TWINS
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OrganoTin Compound	Nr. CAS	Results
MeT (Methyl Tin)	993-16-8	Not Detectable (<=0,01 mg/kg)
DBT (Dibutyltin)	1002-53-5	Not Detectable (<=0,01 mg/kg)
TBT (Tributyltin)	56573-85-4	Not Detectable (<=0,01 mg/kg)
TeBT (Tetrabutyl Tin)	1461-25-2	Not Detectable (<=0,01 mg/kg)
MOT (monooctyl Tin)	3091-25-6	Not Detectable (<=0,01 mg/kg)
DOT (Dioctyltin)	15231-44-4	Not Detectable (<=0,01 mg/kg)
DProT (dipropyl Tin)	867-36-7	Not Detectable (<=0,01 mg/kg)
DPhT (Diphenyl Tin)	1135-99-5	Not Detectable (<=0,01 mg/kg)
TPhT (Triphenyltin)	668-34-8	Not Detectable (<=0,01 mg/kg)
MBT (Monobutyltin)	1118-46-3	Not Detectable (<=0,01 mg/kg)
TCyT (Tricyclohexyl Tin)	3091-52-5	Not Detectable (<=0,01 mg/kg)
TMT (Trimethyl Tin)	1066-45-1	Not Detectable (<=0,01 mg/kg)
DMT (Dimethyl Tin)	753-73-1	Not Detectable (<=0,01 mg/kg)
TOT (trioctyl Tin)	2587-76-0	Not Detectable (<=0,01 mg/kg)
TPT (Tripropyl Tin)	2279-76-7	Not Detectable (<=0,01 mg/kg)

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CE0084	Determination of perfluorinated compounds
<i>Test methods</i>	UNI CEN/TS 15968:2010

Rev.1.0 -25/03/2016

Method organic solvent - ultrasonic bath - 60°C - 1h
Equipment GC-MSMS (for FTOHs and FTAs) - LC-MSMS/LC-Q-TOF (other PFCs)
Testing date 18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
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Short Chain Perfluoro Compounds	CAS N.	LOD	Result
Perfluorohexane (PFHx)	335-42-0	1,00 µg/m ²	Not detectable
Perfluoropentane (PFPe)	678-26-2	1,00 µg/m ²	Not detectable
Perfluorocyclobutane (PFGB)	115-25-3	10,00 µg/m ²	Not detectable
Perfluorbutansulfonic acid (PFBS)	29420-49-3 / 375-73-5	1,00 µg/m ²	Not detectable
Perfluorohexane sulfonic acid (PFHxS)	3871-99-6 / 355-46-4	1,00 µg/m ²	Not detectable
Perfluoro 1-heptanesulphonic acid (PFHpS)	375-92-8 / 60270-55-5	1,00 µg/m ²	Not detectable
Perfluorobutanoic acid (PFBA)	375-22-4	1,00 µg/m ²	Not detectable
Perfluoropentanoic acid (PFPeA)	2706-90-3	1,00 µg/m ²	Not detectable
Perfluoro n-hexanoic acid (PFHxA)	307-24-4	1,00 µg/m ²	Not detectable
Perfluoro n-heptanoic acid (PFHpA)	375-85-9	1,00 µg/m ²	Not detectable
7H-Perfluoroheptanoic acid (HPFHpA)	1546-95-8	1,00 µg/m ²	Not detectable
4:2 Fluorotelomer alcohol (FTOH 4-2)	2043-47-2	10,00 µg/m ²	Not detectable
6:2 Fluorotelomer alcohol (FTOH 6-2)	647-42-7	10,00 µg/m ²	Not detectable

Long Chain Perfluoro Compounds	CAS N.	LOD	Result
Perfluorooctane sulfonic acid (PFOS)	2795-39-3 / 1763-23-1	1,00 µg/m ²	Not detectable
Perfluorodecane sulfonic acid (PFDS)	335-77-3 / 2806-15-7 / 2806-16-8 / 67906-42-7	1,00 µg/m ²	Not detectable
Perfluorooctane-sulfonamide (PFOSA)	754-91-6	1,00 µg/m ²	Not detectable
Perfluoro n-octanoic acid (PFOA)	335-67-1 / 3825-26-1	1,00 µg/m ²	Not detectable
Perfluoro n-nonanoic acid (PFNA)	375-95-1	1,00 µg/m ²	Not detectable
Perfluoro n-decanoic acid (PFDA)	335-76-2	1,00 µg/m ²	Not detectable
Perfluoroundecanoic acid (PFUnA)	2058-94-8 / 4234-23-5	1,00 µg/m ²	Not detectable
2H,2H,3H,3H-Perfluoroundecanoic acid (HPFUnA)	34598-33-9	1,00 µg/m ²	Not detectable
Perfluorododecanoic acid (PFDoA)	307-55-1	1,00 µg/m ²	Not detectable
Perfluorotridecanoic acid (PFTrA)	72629-94-8	1,00 µg/m ²	Not detectable
Perfluorotetradecanoic acid (PFTA)	376-06-7	1,00 µg/m ²	Not detectable
Perfluoro-3,7-dimethyloctanoic acid (H2PFDA)	172155-07-6	1,00 µg/m ²	Not detectable
1H,1H,2H,2H Perfluorooctane sulfonic acid (H4PFOS 6-2)	27619-97-2	1,00 µg/m ²	Not detectable
1H,1H,2H,2H-Perfluorooctyl acrylate (FTA 6-2)	17527-29-6	1,00 µg/m ²	Not detectable
1H,1H,2H,2H-Perfluorodecyl acrylate (FTA 8-2)	27905-45-9	1,00 µg/m ²	Not detectable
1H,1H,2H,2H-Perfluorododecyl acrylate (FTA 10-2)	17741-60-5	1,00 µg/m ²	Not detectable
8:2 Fluorotelomer alcohol (FTOH 8-2)	678-39-7	10,00 µg/m ²	Not detectable
10:2 Fluorotelomer alcohol (FTOH 10-2)	865-86-1	10,00 µg/m ²	Not detectable
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	1,00 µg/m ²	Not detectable
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	1,00 µg/m ²	Not detectable
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	1,00 µg/m ²	Not detectable
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	1,00 µg/m ²	Not detectable
7H-dodecanefluoroheptane acid (7H-DoFHpA)	/	1,00 µg/m ²	Not detectable
2H,2H-Perfluorodecane acid salts (2H-PFDeA)	/	1,00 µg/m ²	Not detectable

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Long Chain Perfluoro Compounds	CAS N.	LOD	Result
1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H-2H-PFOS)	/	1,00 µg/m ²	Not detectable
1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS)	39108-34-4	1,00 µg/m ²	Not detectable
2H,2H-Perfluorodecanoic acid (H2PFDeA)	27854-31-5	1,00 µg/m ²	Not detectable
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7	1,00 µg/m ²	Not detectable

Nota: LOD = Limit of detection

CE0080	Determination of the content of bonds based on chlorobenzene and chlorotoluene
Test methods	DIN 54232:2010

Rev.1.0 -25/03/2016

Testing equipment GC-MSMS
 Testing conditions organic solvent - ultrasonic bath - 60°C - 1h
 Testing date 18/10/2016

Test Results :

Sample identification	Art. Insulation TWINS
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SUBSTANCE	CAS N.	Limit of detection	Result
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SUBSTANCE	CAS N.	Limit of detection	Result
chlorobenzene	108-90-7	0,01 mg/kg	Not detectable
1,2-dichlorobenzene	95-50-1	0,01 mg/kg	Not detectable
1,3-dichlorobenzene	541-73-1	0,01 mg/kg	Not detectable
1,4-dichlorobenzene	106-46-7	0,01 mg/kg	Not detectable
1,2,3-trichlorobenzene	87-61-6	0,01 mg/kg	Not detectable
1,2,4-trichlorobenzene	120-82-1	0,01 mg/kg	Not detectable
1,3,5-trichlorobenzene	108-70-3	0,01 mg/kg	Not detectable
1,2,3,5 tetrachlorobenzene	634-90-2	0,01 mg/kg	Not detectable
1,2,4,5 tetrachlorobenzene	95-94-3	0,01 mg/kg	Not detectable
Pentachlorobenzene	608-93-5	0,01 mg/kg	Not detectable
Hexachlorobenzene	118-74-1	0,01 mg/kg	Not detectable
2-chlorotoluene	95-49-8	0,01 mg/kg	Not detectable
3-chlorotoluene	108-41-8	0,01 mg/kg	Not detectable
4-chlorotoluene	106-43-4	0,01 mg/kg	Not detectable
2,3-dichlorotoluene	95-73-8	0,01 mg/kg	Not detectable
3,4-dichlorotoluene	95-75-0	0,01 mg/kg	Not detectable
2,4-dichlorotoluene	95-73-8	0,01 mg/kg	Not detectable
2,5-dichlorotoluene	19398-61-9	0,01 mg/kg	Not detectable
2,6-dichlorotoluene	118-69-4	0,01 mg/kg	Not detectable
2,4,5-trichlorotoluene	6639-30-1	0,01 mg/kg	Not detectable
a,2,4-trichlorotoluene	94-99-5	0,01 mg/kg	Not detectable
a,3,4-trichlorotoluene	102-47-6	0,01 mg/kg	Not detectable
a,2,6-trichlorotoluene	2014-83-7	0,01 mg/kg	Not detectable
a,a,a,2-tetrachlorotoluene	2136-89-2	0,01 mg/kg	Not detectable
a,a,2,6-tetrachlorotoluene	81-19-6	0,01 mg/kg	Not detectable
Pentachlorotoluene	877-11-2	0,01 mg/kg	Not detectable
Benzyl chloride	100-44-7	0,01 mg/kg	Not detectable
1,2-dichloro-4-(trichloromethyl)-benzene	13014-24-9	0,01 mg/kg	Not detectable

Sample identification **Art. Insulation TWINS**

SUBSTANCE	CAS N.	Limit of detection	Result
a,a,2,4-Tetrachlorotoluene	134-25-8	0,01 mg/kg	Not detectable
2,3,6-Trichlorotoluene	2077-46-5	0,01 mg/kg	Not detectable
p-chlorobenzotrìchloride	5216-25-1	0,01 mg/kg	Not detectable
1,2,3,4-Tetrachlorobenzene	634-66-2	0,01 mg/kg	Not detectable
Monomethyl-tetrachloro-diphenyl methane	76253-60-6	0,01 mg/kg	Not detectable
Monomethyl-dichloro-diphenyl methane	81161-70-8	0,01 mg/kg	Not detectable
a,a,a-trichlorotoluene	98-07-7	0,01 mg/kg	Not detectable

CE0210 **Determination of Volatile Organic Compound (VOC)**

Test methods **In-house method (ref. GB 19340-2003)**

Rev.1.0 -25/03/2016

Testing equipment **HS-GC-MS - Headspace analysis**

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 Testing conditions 70°C - 30min
 Data di prova 19/10/2016

Test Results :

Sample identification	Art. Insulation TWINS
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SUBSTANCE	CAS N.	Limit of detection	Result	
MEK	<i>Methyl-ethyl ketone</i>	78-93-3	0,1 mg/kg	Not detectable
1,2-dicloro etano	<i>1,2-dichloroethane</i>	107-06-2	0,1 mg/kg	Not detectable
Benzene	<i>Benzene</i>	71-43-2	0,1 mg/kg	Not detectable
tricloro etilene	<i>Trichloroethylene</i>	79-01-6	0,1 mg/kg	Not detectable
Toluene	<i>Toluene</i>	108-88-3	0,1 mg/kg	Not detectable
Tetracloro etilene	<i>Tetrachloroethylene</i>	127-18-4	0,1 mg/kg	Not detectable
Etil benzene	<i>Ethylbenzene</i>	100-41-4	0,1 mg/kg	Not detectable
Xilene	<i>Xylene</i>	1330-20-7	0,1 mg/kg	Not detectable
Stirene	<i>Styrene</i>	100-42-5	0,1 mg/kg	Not detectable
Cicloesanone	<i>Cyclohexanone</i>	108-94-1	2,0 mg/kg	Not detectable
2-etossietil acetato	<i>2-ethoxyethylacetate</i>	111-15-9	10,0 mg/kg	Not detectable
1,2,3-tricloro propano	<i>1,2,3-trichloropropane</i>	96-18-4	10,0 mg/kg	Not detectable
Acetofenone	<i>Acetophenone</i>	98-86-2	1,0 mg/kg	Not detectable
Naftalene	<i>Naphtalene</i>	91-20-3	0,1 mg/kg	Not detectable
N,N - Dimetil Formammide	<i>N,N-dimethylformamide</i>	68-12-2	1,0 mg/kg	Not detectable
1-metil-2-pirrolidone	<i>1-methyl-2-pyrrolidone</i>	872-50-4	50,0 mg/kg	Not detectable
2-fenil-2-propanolo	<i>2-phenyl-2-propanole</i>	617-94-7	1,0 mg/kg	Not detectable
Bis-(2-metossietil) etere	<i>Bis-(2-methoxyethyl)ether</i>	111-96-6	20,0 mg/kg	Not detectable
N,N dimetil acetammide	<i>N,N-Dimethylacetamide</i>	127-19-5	20,0 mg/kg	Not detectable
o-cresolo	<i>o-cresol</i>	95-48-7	1,0 mg/kg	Not detectable
m-cresolo	<i>m-cresol</i>	108-39-4	1,0 mg/kg	Not detectable

Sample identification	Art. Insulation TWINS
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SUBSTANCE	CAS N.	Limit of detection	Result
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SUBSTANCE		CAS N.	Limit of detection	Result
p-cresolo	<i>p-cresol</i>	106-44-5	1,0 mg/kg	Not detectable
diclorometano	<i>dichloromethane</i>	75-09-2	1,0 mg/kg	Not detectable
Formammide	<i>formamide</i>	75-12-7	20,0 mg/kg	Not detectable
n-esano	<i>n-hexane</i>	110-54-3	1,0 mg/kg	Not detectable
Alcol metilico	<i>Methyl alcohol</i>	67-56-1	1,0 mg/kg	Not detectable
Cloroformio	<i>Chloroform</i>	66-67-3	0,1 mg/kg	Not detectable
Tetraclorometano	<i>tetrachloromethane</i>	56-23-5	0,1 mg/kg	Not detectable
1,1,2-Tricloroetano	<i>1,1,2-Tetrachloroethane</i>	79-00-5	0,1 mg/kg	Not detectable
1,1,-Dicloroetano	<i>1,1-dichloroethane</i>	75-34-3	0,1 mg/kg	Not detectable
1,1,1-Tricloroetano	<i>1,1,1-Trichloroethane</i>	71-55-5	0,1 mg/kg	Not detectable
1,1,1,2-Tetracloroetano	<i>1,1,1,2-Tetrachloroethane</i>	630-20-6	0,1 mg/kg	Not detectable
1,1,2,2-Tetracloroetano	<i>1,1,2,2-Tetrachloroethane</i>	79-34-5	0,1 mg/kg	Not detectable
Pentacloroetano	<i>Pentachloroethane</i>	76-01-7	0,1 mg/kg	Not detectable
1,1-Dicloroetilene	<i>1,1-Dichloroethylene</i>	75-34-4	0,1 mg/kg	Not detectable

CE0019	Textiles, leather: Determination of chlorophenols (PCP - TeCP - TCP - DCP - MCP - OPP)
<i>Test methods</i>	Tessili: UNI 11057:2003; GB/T 18414.1:2006 - Cuoio: UNI EN ISO 17070:2015

Rev.1.0 -25/03/2016

Test environment
Limit of detection (LOD)

PCP, TeCP, TriCP, DiCp, MoCP = 0.01 mg/kg; OPP, CMP = 1 mg/kg

Limit of quantification (LOQ)

PCP, TeCP, TriCP, DiCp, MoCP = 0.025 mg/kg; OPP, CMP = 5 mg/kg

Testing date

18/10/2016

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Test Results :

<i>Sample identification:</i>		Art. Insulation TWINS	
Chlorophenols		CAS	Amount
Pentachlorophenol (PCP)		87-86-5	Non detectable
2,3,4,5 Tetrachlorophenol (TeCP)		4901-51-3	Non detectable
2,3,4,6 Tetrachlorophenol (TeCP)		58-90-2	Non detectable
2,3,5,6 Tetrachlorophenol (TeCP)		935-95-5	Non detectable
2,4,5 Trichlorophenol (TriCP)		95-95-4	Non detectable
2,4,6 Trichlorophenol (TriCP)		88-06-2	Non detectable
2,3,6 Trichlorophenol (TriCP)		933-75-5	Non detectable
2,3,5 Trichlorophenol (TriCP)		933-78-8	Non detectable
3,4,5 Trichlorophenol (TriCP)		609-19-8	Non detectable
2,3,4 Trichlorophenol (TriCP)		15950-66-0	Non detectable
orto-Phenylphenol (OPP)		90-43-7	Non detectable
3,4 Dichlorophenol (DiCP)		95-77-2	Non detectable
3 Monochlorophenol (MoCP)		108-43-0	Non detectable
2,4 Dichlorophenol (DiCP)		120-83-2	Non detectable
4-Chloro-3-Methylphenol (CMP)		59-50-7	Non detectable
2 Monochlorophenol (MoCP)		95-57-8	Non detectable
2,3 Dichlorophenol (DiCP)		576-24-9	Non detectable
3,5 Dichlorophenol (DiCP)		591-35-5	Non detectable
2,6 Dichlorophenol (DiCP)		87-65-0	Non detectable
4 Monochlorophenol (MoCP)		106-48-9	Non detectable
2,5 Dichlorophenol (DiCP)		583-78-8	Non detectable
2,2'-methylenebis-4 chlorophenol		97-23-4	Non detectable

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CE0081	Determination of Chlorinated Paraffins (SCCP - MCCP - LCCP)
<i>Test methods</i>	Metodo Interno MIP_CE0081

Rev.1.0 -25/03/2016

Testing equipment LC-MSMS
Testing conditions organic solvent extraction - ultrasonic bath
Limit of detection 0,5 mg/kg
Testing date 18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
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SUBSTANCE	CAS N.	RESULT
Short Chain Chlorinated paraffins SCCP (C10 – C13)	<i>Various</i>	Not Detectable
Medium Chain Chlorinated paraffins MCCP (C14 – C17)	<i>Various</i>	Not Detectable
Long Chain Chlorinated paraffins LCCP (C18 – C20)	<i>Various</i>	Not Detectable

Note: Not detectable Lower than limit of detection

CE0062	Determination of Cadmium, Lead, Mercury and Hexavalent Chromium
<i>Test methods</i>	In-House Method (EN 1122/CPSC-CH-E1002-12/UNI EN 17075)

Rev.1.0 -25/03/2016

Testing conditions acid digestion-microwave-ICP-MS / UV-VIS Spectrophotometer
Testing equipment ICP-MS for Cd, As, Hg - LC-ICP-MS for Cr(VI)
Testing date 18/10/2016

Test Results :

<i>Sample identification</i>	Art. Insulation TWINS
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Heavy metal		Amount (mg/kg)	Limit of detection (mg/kg)
Pb	Lead	7,60	<i>0,1 mg/kg</i>
Cd	Cadmium	Not Detectable	<i>0,1 mg/kg</i>
Hg	Mercury	Not Detectable	<i>0,01 mg/kg</i>
Cr (VI)	Hexavalent Chromium	Not Detectable	<i>0,1 mg/kg</i>

Note: Not detectable: lower than limit of detection

NB. The results reported in the tables above refer to a test analysis of the samples submitted.

End of Test Report.

