


CERTEST

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RECEIPT 05/10/2017

TESTING DATES FROM 05/10/2017 TO 12/10/2017

COMMITTENT
BESANI SRL
VIA PER GALLARATE 50/A
21010 BESNATE VA

LABORATORY REPORT n° 1723706 of 12/10/2017

DENOMINATION Analyses purchased by: RIVA MARIO
 Article: FILATO DI COTONE TINTO E MERCERIZZATO IN FILO
 Colour: T0022
 Application: Apparel
 Type of Material: Textile

 Season: /
 Notes: 100% COTONE - SOLO MERCERIZZATO E TINTO IN FILOFABBRICAZIONE TESSUTI A MAGLIA
 Requirements: DETOX PROGRAM
 Sampling: done by the client

Sample 01

| Test | Pass | Fail | Failure result |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------------|
| Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016 | X | | |
| Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015 | 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: 2012 | X | | |
| Determination of head-space volatile solvents Inhouse Method: IOP 47: 2016 Rev00 | X | | |
| Determination of Chlorophenols content - Test Method: UNI EN ISO 17070: 2015 | X | | |
| Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 | 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 | | |

Continuing...

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


LAB N. 1480



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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 1723706.01 | | | | | | |
| 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, n=2 to n=18 Octylphenoethoxylates, n=2 to n=16 | < L.O.Q. < L.O.Q. | <1 <1 | mg/kg mg/kg | 1 1 | | Pass Pass |
| 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 | NP OP | < 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 |
| 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 Total Lead [Pb] Content Total Mercury [Hg] Content | < L.O.Q. < L.O.Q. < L.O.Q. | <0,02 <0,5 <0,001 | mg/kg mg/kg mg/kg | 0,02 0,5 0,001 | | Pass Pass Pass |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------|-------|--------|-------|----------|------|
| 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 | 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 | |
| | Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2012 <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 | |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|--------------------------------------|-------|--------------------------------------------------------------|
| | 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 |
| Determination of head-space volatile solvents Inhouse Method: IOP 47: 2016 Rev00 Operating Conditions - Extraction Headspace - Determination GC-MS | Chlorinated Solvents Dichloromethane (CAS N.75-09-2) (*) Chloroform (CAS N. 67-66-3) (*) Tetrachloromethane (CAS N. 56-23-5) (*) 1,1,2-Trichloroethane (CAS N. 56-23-5) (*) 1,1-Dichloroethane (CAS N. 75-34-3) (*) 1,2-Dichloroethane (CAS N. 107-06-2) (*) Trichloroethylene (CAS N. 79-01-6) (*) Perchloroethylene (CAS N.127-18-4) (*) | < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. | <1 <1 <1 <1 <1 <1 <1 <1 | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 1 1 1 1 1 1 1 1 | | Pass Pass Pass Pass Pass Pass Pass Pass |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------|--------|-------|--------|-------|----------|
| | 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 |
| Determination of Chlorophenols content - Test Method: UNI EN ISO 17070: 2015 Operating Conditions - 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 |
| | 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 |
| | Monochlorphenol (*) | < L.O.Q. | <0,05 | mg/kg | 0,05 | | Pass |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|--------|-------|--------|-------|----------|
| 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 |
| | Trippropyltin (TPT) | < L.O.Q. | <0,2 | mg/kg | 0,2 | | 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 | Perfluorinated Chemicals (PFCs) | | | | | | |
| | Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorobutanesulfonic acid (PFBS) (CAS N.59933-66-3) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorobutyric acid (PFBA) (CAS N.375-22-4) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoroundecanoic acid (PFUnA) (CAS N.2058-94-8) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|--------|-------|--------|-------|----------|
| | Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (CAS N.17741-60-5) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | N-methylperfluoro-1-octansulfonamide (N-MeFOSA) (CAS N.31506-32-8) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (CAS N. 4151-50-2) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| | Perfluoro-1-octanesulfonyl fluoride (POSF) (CAS N. 307-35-7) (*) | < L.O.Q. | <0,01 | mg/kg | 0,01 | | Pass |
| Determination of FTOH in coated material by GC-MS Inhouse Method: CPSD-AN-00667 V8 Operating Conditions -Solvent extraction and determination by GC-MS QQQ | | | | | | | |
| | 2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2) (*) | < L.O.Q. | <0,1 | mg/kg | 0,1 | | Pass |
| | 2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7) (*) | < L.O.Q. | <0,1 | mg/kg | 0,1 | | Pass |
| | 2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7) (*) | < L.O.Q. | <0,1 | mg/kg | 0,1 | | Pass |

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TESTING DATES FROM 05/10/2017 TO 12/10/2017

COMMITTENT
BESANI SRL
VIA PER GALLARATE 50/A
21010 BESNATE VA
LABORATORY REPORT n° 1723706 of 12/10/2017

| TEST METHOD | PARAMETER | RESULT | LIMITS | U.M. | L.O.Q. | NOTES | ASSESS." |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------|--------|-------|--------|-------|----------|
| Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis | Allergenic 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 |
| | 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 |

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COMMITTENT
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VIA PER GALLARATE 50/A
21010 BESNATE VA
LABORATORY REPORT n° 1723706 of 12/10/2017

| TEST METHOD | PARAMETER | RESULT | LIMITS | U.M. | L.O.Q. | NOTES | ASSESS." |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|--------|-------|--------|-------|----------|
| | 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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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.

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.

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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