INKCUPS CORPORATION
310 ANDOVER STREET, Danvers, MA 01923,United States

The following sample(s) was/were submitted and identified by client as:

Report on the submitted sample said to be:

Sample Description	:	Three samples of SB Eco series ink in (A) black 165 (B) light onix 150A (C) dark onix A79H
Amount Of Sample	:	---
Division	:	Apparel Division
Buyer's Name	:	Adidas
Summary Of Test Result	:	**Pass**
Failure test items	:	---
Age Group	:	Infants
Material Name/Code	:	SAPPHIRE SB ECO SERIES
Color Name/ Code	:	Black/ Light Onix/ Dark Onix 165 / 150A / A79H
Supplier Name	:	Inkcups Corporation
Finished Product Factory	:	---
Lot No./Purchase Order No.	:	---
Model Name	:	---
Client Reference Number	:	---
PLM Number	:	---
Construction	:	---
Gauge (Knit only)	:	---
Fabric weight	:	---
Article style Number received	:	---
Season	:	---
End product	:	---
Finish	:	---
Supplier Contact Person	:	---
Country Of Supplier	:	Italy
Country Of Destination	:	---
Material Component	:	---
Sample Classification	:	Cement systems
Test Required Key code No.	:	Key code 509 under Adidas A-01 Test Standard 2021
Report Type	:	Full Test (FT)
Full test report No.	:	---
Additional Information:	:	---
Sample Received Date	:	Feb 16,2022
Sample Tested Date	:	Feb 16,2022 - Feb 16,2022
SGS Job No.	:	SL12200240873801TX
Previous Report No.	:	---
Care Instructions:	:	---

Summary of Test Result: (Detail test results on next page)

Test Parameter	Test Method	Conclusion (**P**ass/**F**ail)
Extractable Heavy Metals	Others: With reference to DIN EN 16711-2:2016. Analysis was performed by ICP-OES / ICP-MS	Pass
Total Cadmium	Others: With reference to DIN EN 16711-1:2016. Analysis was performed by ICP-OES or AAS	Pass
Total Lead	Others: With reference to DIN EN 16711-1:2016. Analysis was performed by ICP / AAS	Pass
Σ PCP, TeCP and TriCP	With reference to DIN 50009:2021. Analysis was performed by GC-MS	Pass
o-Phenylphenol, OPP	Textile: Extraction with KOH. Analysis by GC-MS	Pass
Azo-amines	Textile: DIN EN ISO 14362-1:2017	Pass
Formaldehyde	Non-leather: Infants: JIS L1041:2011 (Method A)	Pass
Disperse Dyes and dyestuffs	DIN 54231:2005	Pass
Organotin Compounds	ISO/TS 16179:2012	Pass
Σ Phthalates	DIN EN ISO 14389:2014. Analysis was performed by GC-MS	Pass
Σ Short Chained Chloroparaffins (C10-C13)	Polymer: extraction with THF. Analysis by GC-NCI-MS / GC-ECD	Pass
Σ Medium Chained Chloroparaffines (C14-C17)	Polymer: extraction with THF. Analysis by GC-NCI-MS / GC-ECD	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO)	Extraction with THF. Analysis was performed by LC-MS.	Pass
Nonylphenol (NP)	Extraction with THF. Analysis was performed by LC-MS.	Pass
Octylphenol (OP)	Extraction with THF. Analysis was performed by LC-MS.	Pass
Polycyclic Aromatic Hydrocarbons (PAHs) and regulated PAHs of high concern	AfPS GS 2019:01 PAK. Analysis was performed by GC-MS	Pass
Chemicals in Cement System	Solvent Extraction, Analysis by GC-MS	Pass

Sample Photo

Signed for and on behalf of
SGS (Hong Kong) Limited

Alfred

Chan Kai Kong, Alfred, Assistant Technical Manager

COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Dried paint	Coatings & Prints	Black	/
B	2	Dried paint	Coatings & Prints	Pale grey	/
C	3	Dried paint	Coatings & Prints	Dark grey	/

Test Result:

Extractable Heavy Metals (Mandatory + Optional) - Key code 201, 205, 300, 301, 403, 404, 500, 502, 503, 504, 505, 506, 507, 509, 511

Test Method : Others: With reference to EN 16711-2:2016. Analysis was performed by ICP-OES / ICP-MS

Test Item(s)	CAS NO.	1
Antimony (Sb)	7440-36-0	ND
Barium (Ba)	7440-39-3	ND
Selenium (Se))	7782-49-2	ND
Arsenic (As)	7440-38-2	ND
Cadmium (Cd)	7440-43-9	ND
Chromium (Cr), Total	7440-47-3	ND
Chromium VI (Cr VI)	18540-29-9	ND
Cobalt (Co)	7440-48-4	ND
Copper (Cu)	7440-50-8	ND
Lead (Pb)	7439-92-1	ND
Mercury (Hg)	7439-97-6	ND
Nickel (Ni)	7440-02-0	ND
Conclusion		**PASS**

Test Item(s)	CAS NO.	2
Antimony (Sb)	7440-36-0	ND
Barium (Ba)	7440-39-3	ND
Selenium (Se))	7782-49-2	ND
Arsenic (As)	7440-38-2	ND
Cadmium (Cd)	7440-43-9	ND
Chromium (Cr), Total	7440-47-3	ND
Chromium VI (Cr VI)	18540-29-9	ND
Cobalt (Co)	7440-48-4	ND
Copper (Cu)	7440-50-8	ND
Lead (Pb)	7439-92-1	ND
Mercury (Hg)	7439-97-6	ND
Nickel (Ni)	7440-02-0	ND
Conclusion		**PASS**

Extractable Heavy Metals (Mandatory + Optional) - Key code 201, 205, 300, 301, 403, 404, 500, 502, 503, 504, 505, 506, 507, 509, 511

Test Method : Others: With reference to EN 16711-2:2016. Analysis was performed by ICP-OES / ICP-MS

Test Item(s)	CAS NO.	3
Antimony (Sb)	7440-36-0	ND
Barium (Ba)	7440-39-3	ND
Selenium (Se))	7782-49-2	ND
Arsenic (As)	7440-38-2	ND
Cadmium (Cd)	7440-43-9	ND
Chromium (Cr), Total	7440-47-3	ND
Chromium VI (Cr VI)	18540-29-9	ND
Cobalt (Co)	7440-48-4	ND
Copper (Cu)	7440-50-8	ND
Lead (Pb)	7439-92-1	ND
Mercury (Hg)	7439-97-6	ND
Nickel (Ni)	7440-02-0	ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement

Requirement: Infants (mg/kg) Adults (mg/kg) Reporting limit (mg/kg)
Barium 1000 1000 100
Selenium 500 500 50
Arsenic 0.2 0.2 0.06
Antimony 30 30 3.0
Cadmium 0.1 0.1 0.03
Chromium 1.0 2.0 0.3
Chromium (VI) 1.0 1.0 0.3
Lead 0.2 1.0 0.06
Mercury 0.02 0.02 0.006
Copper 25 50 5.0
Nickel 0.5 1.0 0.1
Cobalt 1.0 4.0 0.3

Total Cadmium

Test Method : Others: With reference to DIN EN 16711-1:2016.
Analysis was performed by ICP-OES or AAS

Test Item(s)	1
Cadmium (Cd)	ND
Conclusion	**PASS**

Test Item(s)	2
Cadmium (Cd)	ND
Conclusion	**PASS**

Test Item(s)	3
Cadmium (Cd)	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 5 mg/kg

Requirement: 40 mg/kg

Total Lead

Test Method : Others: With reference to DIN EN 16711-1:2016.
Analysis was performed by ICP / AAS

Test Item(s)	1
Lead (Pb)	ND
Conclusion	**PASS**

Test Item(s)	2
Lead (Pb)	ND
Conclusion	**PASS**

Test Item(s)	3
Lead (Pb)	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceed the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 5 mg/kg

Requirement: 40 mg/kg

Σ PCP, TeCP and TriCP (for Infants)

Test Method : With reference to DIN 50009:2021. Analysis was performed by GC-MS

Test Item(s)	1
Pentachlorophenol (PCP)	ND
Tetrachlorophenol (TeCP)	ND
Trichlorophenol (TriCP)	ND
Total (PCP+TeCP+TCP)	ND
Conclusion	**PASS**

Test Item(s)	2
Pentachlorophenol (PCP)	ND
Tetrachlorophenol (TeCP)	ND
Trichlorophenol (TriCP)	ND
Total (PCP+TeCP+TCP)	ND
Conclusion	**PASS**

Test Item(s)	3
Pentachlorophenol (PCP)	ND
Tetrachlorophenol (TeCP)	ND
Trichlorophenol (TriCP)	ND
Total (PCP+TeCP+TCP)	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 0.05 mg/kg (for individual compound)

Requirement: 0.05 mg/kg (sum)

o-Phenylphenol, OPP

Test Method : Textile: Extraction with KOH. Analysis by GC-MS

Test Item(s)	1
Ortho-phenylphenol (OPP)	ND
Conclusion	**PASS**

Test Item(s)	2
Ortho-phenylphenol (OPP)	ND
Conclusion	**PASS**

Test Item(s)	3
Ortho-phenylphenol (OPP)	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 100 mg/kg

Requirement: 1000 mg/kg

Azo Dyes (Direct Reduction)

Test Method : Textile: With reference to EN ISO 14362-1:2017. Analysis was conducted by GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO 14362-3:2017. Analysis was conducted by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO.	1
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-chloro-o-toluidine	95-69-2	ND
2-naphthylamine	91-59-8	ND
o-aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
3,3'-dichlorobenzidine	91-94-1	ND
3.3'-dimethoxybenzidine	119-90-4	ND
3,3'-dimethylbenzidine	119-93-7	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	ND
p-cresidine / 2-methoxy-5-methylaniline / 6-methoxy-m-toluidine	120-71-8	ND
4.4'-methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-oxydianiline	101-80-4	ND
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine (TDA)	95-80-7	ND
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
2,4-Xylidine	95-68-1	ND
2,6-Xylidine	87-62-7	ND
4-chloro-o-toluidinium chloride+	3165-93-3	ND
2-Naphthylammoniumacetate+	553-00-4	ND
4-methoxy-m-phenylene diammonium sulphate+	39156-41-7	ND
2,4,5-trimethylaniline hydrochloride+	21436-97-5	ND
Conclusion		**PASS**

Azo Dyes (Direct Reduction)

Test Method : Textile: With reference to EN ISO 14362-1:2017. Analysis was conducted by GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO 14362-3:2017. Analysis was conducted by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO.	2
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-chloro-o-toluidine	95-69-2	ND
2-naphthylamine	91-59-8	ND
o-aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
3,3'-dichlorobenzidine	91-94-1	ND
3.3'-dimethoxybenzidine	119-90-4	ND
3,3'-dimethylbenzidine	119-93-7	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	ND
p-cresidine / 2-methoxy-5-methylaniline / 6-methoxy-m-toluidine	120-71-8	ND
4.4'-methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-oxydianiline	101-80-4	ND
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine (TDA)	95-80-7	ND
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
2,4-Xylidine	95-68-1	ND
2,6-Xylidine	87-62-7	ND
4-chloro-o-toluidinium chloride+	3165-93-3	ND
2-Naphthylammoniumacetate+	553-00-4	ND
4-methoxy-m-phenylene diammonium sulphate+	39156-41-7	ND
2,4,5-trimethylaniline hydrochloride+	21436-97-5	ND
Conclusion		**PASS**

Azo Dyes (Direct Reduction)

Test Method : Textile: With reference to EN ISO 14362-1:2017. Analysis was conducted by GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO 14362-3:2017. Analysis was conducted by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO.	3
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-chloro-o-toluidine	95-69-2	ND
2-naphthylamine	91-59-8	ND
o-aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
3,3'-dichlorobenzidine	91-94-1	ND
3.3'-dimethoxybenzidine	119-90-4	ND
3,3'-dimethylbenzidine	119-93-7	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	ND
p-cresidine / 2-methoxy-5-methylaniline / 6-methoxy-m-toluidine	120-71-8	ND
4.4'-methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-oxydianiline	101-80-4	ND
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine (TDA)	95-80-7	ND
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
2,4-Xylidine	95-68-1	ND
2,6-Xylidine	87-62-7	ND
4-chloro-o-toluidinium chloride+	3165-93-3	ND
2-Naphthylammoniumacetate+	553-00-4	ND
4-methoxy-m-phenylene diammonium sulphate+	39156-41-7	ND
2,4,5-trimethylaniline hydrochloride+	21436-97-5	ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
*= exceed the limit
+ = result was back calculated based on the determination of its amine
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
@ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants.
^ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.
Reporting limit = 5 mg/kg (each)

Requirement: 20 mg/kg (each)

Remark: + Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as “n.d.” (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

Formaldehyde (Non-Leather)

Test Method : Non-leather: Infants: With reference to JISL 1041A:2011. Analysis was performed by UV/VIS spectrophotometer.

Test Item(s)	1
Formaldehyde	ND
Conclusion	**PASS**

Test Item(s)	2
Formaldehyde	ND
Conclusion	**PASS**

Test Item(s)	3
Formaldehyde	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement

Reporting limit = 5 mg/kg

Requirement:
Infants: 16 mg/kg
Children apparel (size < 98-176): 20 mg/kg

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	1
Disperse Blue 1	2475-45-8	ND
Disperse Blue 3	2475-46-9	ND
Disperse Blue 7	3179-90-6	ND
Disperse Blue 26	3860-63-7	ND
Disperse Blue 35	12222-75-2	ND
Disperse Blue 102	12222-97-8	ND
Disperse Blue 106	12223-01-7	ND
Disperse Blue 124	61951-51-7	ND
Disperse Brown 1	23355-64-8	ND
Disperse Yellow 1	119-15-3	ND
Disperse Yellow 3	2832-40-8	ND
Disperse Yellow 9	6373-73-5	ND
Disperse Yellow 23	6250-23-3	ND
Disperse Yellow 39	12236-29-2	ND
Disperse Yellow 49	54824-37-2	ND
Disperse Orange 1	2581-69-3	ND
Disperse Orange 3	730-40-5	ND
Disperse Orange 11	82-28-0	ND
Disperse Orange 37/59/76	12223-33-5 / 13301-61-6 / 51811-42-8	ND
Disperse Orange 149	85136-74-9	ND
Disperse Red 1	2872-52-8	ND
Disperse Red 11	2872-48-2	ND
Disperse Red 17	3179-89-3	ND
Acid Red 26	3761-53-3	ND
Basic Red 9	569-61-9	ND
Acid Red 114	6459-94-5	ND
Basic Violet 14	632-99-5	ND
Direct Black 38	1937-37-7	ND
Direct Blue 6	2602-46-2	ND
Direct Blue 15	2429-74-5	ND
Direct Red 28	573-58-0	ND

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	1
Direct Brown 95	16071-86-6	ND
Basic Blue 26	2580-56-5	ND
Basic Violet 3	548-62-9	ND
Disperse Yellow 7	6300-37-4	ND
Disperse Yellow 56	54077-16-6	ND
Disperse Red 151	61968-47-6	ND
Solvent Red 23	85-86-9	ND
Navy Blue		ND
Basic Green 4 (Free)	10309-95-2	ND
Basic Green 4 (Chloride)+	569-64-2	ND
Basic Green 4 (Oxalate)+	2437-29-8, 18015-76-4	ND
Conclusion		**PASS**

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	2
Disperse Blue 1	2475-45-8	ND
Disperse Blue 3	2475-46-9	ND
Disperse Blue 7	3179-90-6	ND
Disperse Blue 26	3860-63-7	ND
Disperse Blue 35	12222-75-2	ND
Disperse Blue 102	12222-97-8	ND
Disperse Blue 106	12223-01-7	ND
Disperse Blue 124	61951-51-7	ND
Disperse Brown 1	23355-64-8	ND
Disperse Yellow 1	119-15-3	ND
Disperse Yellow 3	2832-40-8	ND
Disperse Yellow 9	6373-73-5	ND
Disperse Yellow 23	6250-23-3	ND
Disperse Yellow 39	12236-29-2	ND
Disperse Yellow 49	54824-37-2	ND
Disperse Orange 1	2581-69-3	ND
Disperse Orange 3	730-40-5	ND
Disperse Orange 11	82-28-0	ND
Disperse Orange 37/59/76	12223-33-5 / 13301-61-6 / 51811-42-8	ND
Disperse Orange 149	85136-74-9	ND
Disperse Red 1	2872-52-8	ND
Disperse Red 11	2872-48-2	ND
Disperse Red 17	3179-89-3	ND
Acid Red 26	3761-53-3	ND
Basic Red 9	569-61-9	ND
Acid Red 114	6459-94-5	ND
Basic Violet 14	632-99-5	ND
Direct Black 38	1937-37-7	ND
Direct Blue 6	2602-46-2	ND
Direct Blue 15	2429-74-5	ND
Direct Red 28	573-58-0	ND
Direct Brown 95	16071-86-6	ND
Basic Blue 26	2580-56-5	ND

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	2
Basic Violet 3	548-62-9	ND
Disperse Yellow 7	6300-37-4	ND
Disperse Yellow 56	54077-16-6	ND
Disperse Red 151	61968-47-6	ND
Solvent Red 23	85-86-9	ND
Navy Blue		ND
Basic Green 4 (Free)	10309-95-2	ND
Basic Green 4 (Chloride)+	569-64-2	ND
Basic Green 4 (Oxalate)+	2437-29-8, 18015-76-4	ND
Conclusion		**PASS**

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	3
Disperse Blue 1	2475-45-8	ND
Disperse Blue 3	2475-46-9	ND
Disperse Blue 7	3179-90-6	ND
Disperse Blue 26	3860-63-7	ND
Disperse Blue 35	12222-75-2	ND
Disperse Blue 102	12222-97-8	ND
Disperse Blue 106	12223-01-7	ND
Disperse Blue 124	61951-51-7	ND
Disperse Brown 1	23355-64-8	ND
Disperse Yellow 1	119-15-3	ND
Disperse Yellow 3	2832-40-8	ND
Disperse Yellow 9	6373-73-5	ND
Disperse Yellow 23	6250-23-3	ND
Disperse Yellow 39	12236-29-2	ND
Disperse Yellow 49	54824-37-2	ND
Disperse Orange 1	2581-69-3	ND
Disperse Orange 3	730-40-5	ND
Disperse Orange 11	82-28-0	ND
Disperse Orange 37/59/76	12223-33-5 / 13301-61-6 / 51811-42-8	ND
Disperse Orange 149	85136-74-9	ND
Disperse Red 1	2872-52-8	ND
Disperse Red 11	2872-48-2	ND
Disperse Red 17	3179-89-3	ND
Acid Red 26	3761-53-3	ND
Basic Red 9	569-61-9	ND
Acid Red 114	6459-94-5	ND
Basic Violet 14	632-99-5	ND
Direct Black 38	1937-37-7	ND
Direct Blue 6	2602-46-2	ND
Direct Blue 15	2429-74-5	ND
Direct Red 28	573-58-0	ND
Direct Brown 95	16071-86-6	ND
Basic Blue 26	2580-56-5	ND

Disperse Dyes and Dyestuffs

Test Method : With reference to DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

Test Item(s)	CAS NO.	3
Basic Violet 3	548-62-9	ND
Disperse Yellow 7	6300-37-4	ND
Disperse Yellow 56	54077-16-6	ND
Disperse Red 151	61968-47-6	ND
Solvent Red 23	85-86-9	ND
Navy Blue		ND
Basic Green 4 (Free)	10309-95-2	ND
Basic Green 4 (Chloride)+	569-64-2	ND
Basic Green 4 (Oxalate)+	2437-29-8, 18015-76-4	ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the limit
+ = result was back calculated based on the worst-case scenario of Basic Green 4 cation (CAS 10309-95-2)
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 15 mg/kg (for individual compound)

Requirement: 50 mg/kg (for individual compound)

Organotin Compounds

Test Method : With reference to ISO/TS 16179:2012. Analysis was performed by GC-MS.

Test Item(s)	1
Dibutyl tin (DBT)	ND
Tributyl tin (TBT)	ND
Monobutyl tin (MBT)	0.30 mg/kg
Monooctyl tin (MOT)	ND
Dioctyl tin (DOT)	ND
Triphenyl tin (TPhT)	ND
Trioctyltin(TOT)	ND
Conclusion	**PASS**

Test Item(s)	2
Dibutyl tin (DBT)	ND
Tributyl tin (TBT)	ND
Monobutyl tin (MBT)	ND
Monooctyl tin (MOT)	ND
Dioctyl tin (DOT)	ND
Triphenyl tin (TPhT)	ND
Trioctyltin(TOT)	ND
Conclusion	**PASS**

Organotin Compounds

Test Method : With reference to ISO/TS 16179:2012. Analysis was performed by GC-MS.

Test Item(s)	3
Dibutyl tin (DBT)	ND
Tributyl tin (TBT)	ND
Monobutyl tin (MBT)	ND
Monooctyl tin (MOT)	ND
Dioctyl tin (DOT)	ND
Triphenyl tin (TPhT)	ND
Trioctyltin(TOT)	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceed the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit
TBT = 0.015 mg/kg
Others = 0.1 mg/kg (for individual compound)

Requirement:
TBT Not Detected (0.05 mg/kg)
TPhT 0.5 mg/kg
DBT 1 mg/kg
DOT 1 mg/kg
MBT 1 mg/kg
MOT 1 mg/kg
TOT 1 mg/kg

Phthalates

Test Method : With reference to DIN EN ISO 14389:2014. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	1
Dipentyl Phthalate (DPP)	131-18-0	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	ND
Diisopentylphthalate (DiPP)	605-50-5	ND
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Benzylbutyl Phthalate (BBP)	85-68-7	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHPP)	71888-89-6	ND
Diethyl phthalate (DEP)	84-66-2	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	ND
Total		ND
Conclusion		**PASS**
Ratio of the mass of plasticized materials against the treated textile product		1.0000

Phthalates

Test Method : With reference to DIN EN ISO 14389:2014. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	2
Dipentyl Phthalate (DPP)	131-18-0	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	ND
Diisopentylphthalate (DiPP)	605-50-5	ND
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Benzylbutyl Phthalate (BBP)	85-68-7	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHPP)	71888-89-6	ND
Diethyl phthalate (DEP)	84-66-2	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	ND
Total		ND
Conclusion		**PASS**
Ratio of the mass of plasticized materials against the treated textile product		1.0000

Phthalates

Test Method : With reference to DIN EN ISO 14389:2014. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	3
Dipentyl Phthalate (DPP)	131-18-0	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	ND
Diisopentylphthalate (DiPP)	605-50-5	ND
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Benzylbutyl Phthalate (BBP)	85-68-7	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHPP)	71888-89-6	ND
Diethyl phthalate (DEP)	84-66-2	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	ND
Total		ND
Conclusion		**PASS**
Ratio of the mass of plasticized materials against the treated textile product		1.0000

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit: 50 mg/kg (for individual compound)

Requirement: 500 mg/kg (Total)

Short Chain Chloroparaffins (C10-C13) (SCCPs)

Test Method : Polymer: Extraction with THF. Analysis by GC-NCI-MS / GC-ECD

Test Item(s)	CAS NO.	1
Short Chained Chloroparaffins	85535-84-8	ND
Conclusion		**PASS**

Test Item(s)	CAS NO.	2
Short Chained Chloroparaffins	85535-84-8	ND
Conclusion		**PASS**

Test Item(s)	CAS NO.	3
Short Chained Chloroparaffins	85535-84-8	ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 50 mg/kg

Requirement: 1000 mg/kg

Medium Chained Chloroparaffins (C14-C17) (MCCPs)

Test Method : Polymer: Extraction with THF. Analysis by GC-NCI-MS / GC-ECD

Test Item(s)	CAS NO.	1
Medium Chained Chloroparaffins (C14-C17)	85535-85-9	ND
Conclusion		**PASS**

Test Item(s)	CAS NO.	2
Medium Chained Chloroparaffins (C14-C17)	85535-85-9	ND
Conclusion		**PASS**

Test Item(s)	CAS NO.	3
Medium Chained Chloroparaffins (C14-C17)	85535-85-9	ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 50 mg/kg

Requirement: 1000 mg/kg

Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO) – Polymer

Test Method : Extraction with THF. Analysis was performed by LC-MS.

Test Item(s)	1
Nonylphenol(NP)	ND
Octylphenol(OP)	ND
Nonylphenol ethoxylates (NPEOs)	ND
Octylphenol ethoxylates (OPEOs)	ND
Sum of NP and OP and NPEO and OPEO	ND
Conclusion	**PASS**

Test Item(s)	2
Nonylphenol(NP)	ND
Octylphenol(OP)	ND
Nonylphenol ethoxylates (NPEOs)	ND
Octylphenol ethoxylates (OPEOs)	ND
Sum of NP and OP and NPEO and OPEO	ND
Conclusion	**PASS**

Test Item(s)	3
Nonylphenol(NP)	ND
Octylphenol(OP)	ND
Nonylphenol ethoxylates (NPEOs)	ND
Octylphenol ethoxylates (OPEOs)	ND
Sum of NP and OP and NPEO and OPEO	ND
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 3 mg/kg (AP); 5 mg/kg (APEO)

Requirement:
Nonylphenol (NP) 10 mg/kg
Octylphenol (OP) 10 mg/kg
Sum of NP, OP, NPEO and OPEO 100 mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs) and Regulated PAHs of High Concern

Test Method : With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.

Test Item(s)	1
Naphthalene(NAP)	0.28 mg/kg
Acenaphthylene(ANY)	ND
Acenaphthene(ANA)	ND
Phenanthrene(PHE)	ND
Anthracene(ANT)	ND
Fluorene(FLU)	ND
Fluoranthene(FLT)	ND
Pyrene(PYR)	ND
Benzo(j)fluoranthene(BjF)	ND
Benzo(a)anthracene(BaA)	ND
Chrysene(CHR)	ND
Benzo(b)fluoranthene(BbF)	ND
Benzo(k)fluoranthene(BkF)	ND
Benzo(a)pyrene(BaP)	ND
Indeno(1,2,3-c,d)pyrene(IPY)	ND
Dibenzo(a,h)anthracene(DBA)	ND
Benzo(g,h,i)perylene(BPE)	ND
Benzo(e)pyrene(BeP)	ND
Sum of 18 PAHs	0.28 mg/kg
Conclusion	**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement
Reporting limit = 0.1 mg/kg (for individual compound)

Requirement:	Infants	Adults
Σ of PAHs	10 mg/kg (Total)	10 mg/kg (Total)
Benzo(a)anthracene (BaA)	0.5 mg/kg	1 mg/kg
Benzo(a)pyrene (BaP)	0.5 mg/kg	1 mg/kg
Benzo(b)fluoranthene (BbF)	0.5 mg/kg	1 mg/kg
Benzo(e)pyrene (BeP)	0.5 mg/kg	1 mg/kg
Benzo(j)fluoranthene (BjF)	0.5 mg/kg	1 mg/kg
Benzo(k)fluoranthene (BkF)	0.5 mg/kg	1 mg/kg
Chrysene (CHR)	0.5 mg/kg	1 mg/kg
Dibenzo(a,h)anthracene (DBA)	0.5 mg/kg	1 mg/kg

Chemicals in Cement System

Test Method : Solvent Extraction. Analysis by LC-MS / GC-MS

Test Item(s)	CAS NO.	1
Benzene	71-43-2	ND
Tetrachloroethane		ND
Toluene	108-88-3	ND
Xylene		ND
Trichloroethene		ND
Tetrachloroethene		ND
Dichloromethane		ND
Methylphenol	1319-77-3	ND
Trichloromethane	67-66-3	ND
Cyclohexanone	108-94-1	19.0 mg/kg
THF	109-99-9	ND
Sum of NP and OP and NPEO and OPEO		ND
N,N-Dimethyl formamide	68-12-2	ND
N,N-Dimethylacetamide (DMAC)	127-19-5	ND
1-Methyl-2-pyrrolidone (NMP)	872-50-4	ND
Monobutyltin (MBT)		0.30 mg/kg
Dibutyltin (DBT)		ND
Triphenyltin (TPhT)		ND
Tributyltin (TBT)		ND
Trioctyltin (TOT)		ND
Monooctyltin (MOT)		ND
Dioctyltin (DOT)		ND
Cyclohexane	110-82-7	ND
C3 and C4 alkylated benzenes		ND
Conclusion		**PASS**

Chemicals in Cement System

Test Method : Solvent Extraction. Analysis by LC-MS / GC-MS

Test Item(s)	CAS NO.	2
Benzene	71-43-2	ND
Tetrachloroethane		ND
Toluene	108-88-3	ND
Xylene		ND
Trichloroethene		ND
Tetrachloroethene		ND
Dichloromethane		ND
Methylphenol	1319-77-3	ND
Trichloromethane	67-66-3	ND
Cyclohexanone	108-94-1	398 mg/kg
THF	109-99-9	ND
Sum of NP and OP and NPEO and OPEO		ND
N,N-Dimethyl formamide	68-12-2	ND
N,N-Dimethylacetamide (DMAC)	127-19-5	ND
1-Methyl-2-pyrrolidone (NMP)	872-50-4	ND
Monobutyltin (MBT)		ND
Dibutyltin (DBT)		ND
Triphenyltin (TPhT)		ND
Tributyltin (TBT)		ND
Trioctyltin (TOT)		ND
Monooctyltin (MOT)		ND
Dioctyltin (DOT)		ND
Cyclohexane	110-82-7	ND
C3 and C4 alkylated benzenes		234 mg/kg
Conclusion		**PASS**

Chemicals in Cement System

Test Method : Solvent Extraction. Analysis by LC-MS / GC-MS

Test Item(s)	CAS NO.	3
Benzene	71-43-2	ND
Tetrachloroethane		ND
Toluene	108-88-3	ND
Xylene		ND
Trichloroethene		ND
Tetrachloroethene		ND
Dichloromethane		ND
Methylphenol	1319-77-3	ND
Trichloromethane	67-66-3	ND
Cyclohexanone	108-94-1	61.6 mg/kg
THF	109-99-9	ND
Sum of NP and OP and NPEO and OPEO		ND
N,N-Dimethyl formamide	68-12-2	ND
N,N-Dimethylacetamide (DMAC)	127-19-5	ND
1-Methyl-2-pyrrolidone (NMP)	872-50-4	ND
Monobutyltin (MBT)		ND
Dibutyltin (DBT)		0.093 mg/kg
Triphenyltin (TPhT)		ND
Tributyltin (TBT)		ND
Trioctyltin (TOT)		ND
Monooctyltin (MOT)		ND
Dioctyltin (DOT)		ND
Cyclohexane	110-82-7	ND
C3 and C4 alkylated benzenes		ND
Conclusion		**PASS**

Notes :

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV

Solvents Requirement Reporting

Limit
Benzene 5 mg/kg 5 mg/kg
Tetrachloroethane 1000 mg/kg 5 mg/kg
Toluene 1000 mg/kg 5 mg/kg
Xylene 1000 mg/kg 5 mg/kg
Trichloroethylene 1000 mg/kg 5 mg/kg
Tetrachloroethylene 1000 mg/kg 5 mg/kg
Dichloromethane 1000 mg/kg 5 mg/kg
Methylphenol 1000 mg/kg 5 mg/kg
Cyclohexane 1000 mg/kg 5 mg/kg
Trichloromethanel 1000 mg/kg 5 mg/kg
Tetrahydrofuran (THF) 1000 mg/kg 5 mg/kg
Σ of NP, OP, NPEO and OPEO 1000 mg/kg 50 mg/kg
Dimethylformamide (DMFA) 500 mg/kg 50 mg/kg
N,N-Dimethylacetamide (DMAC) 1000 mg/kg 50 mg/kg
1-Methyl-2-pyrrolidone (NMP) 1000 mg/kg 50 mg/kg
Monobutyltin (MBT) 1 mg/kg 0.1 mg/kg
Dibutyltin (DBT) 1 mg/kg 0.1 mg/kg
Triphenyltin (TPhT) 0.5 mg/kg 0.1 mg/kg
Tributyltin (TBT) n.d. 0.05 mg/kg
Trioctyltin (TOT) 1 mg/kg 0.1 mg/kg
Monooctyltin (MOT) 1 mg/kg 0.1 mg/kg
Dioctyltin (DOT) 1 mg/kg 0.1 mg/kg
Cyclohexanone 1000 mg/kg 5 mg/kg
C3 and C4 alkylated benzenes 1000 mg/kg 50 mg/kg

***** End of Report *****