INKCUPS CORPORATION
310 ANDOVER ST
Danvers,Essex,MA,01923,United States

The following samples were submitted and identified on behalf of the buyer as:

Report on the submitted sample said to be:

Sample Description	:	Three sample of SB series ink in (A) black, (B)light onix, (C) dark onix
Division	:	Apparel Division
Buyer's Name	:	Adidas
Summary of Test Result	:	**Pass**
Failure Test Items	:	---
Age Group	:	Adults
Material Name / Code	:	SB SERIES / Black / Light Onix / Dark Onix
Color Name / Code	:	Black / Light Onix / Dark Onix
Supplier Name	:	---
Supplier Contact Person	:	---
Country of Supplier	:	---
Country of Destination	:	---
Material Component	:	---
Sample Classification	:	Ink, Prints, repair colours (509)
Test Required Key Code No.	:	Key code 509 under Adidas A-01 Test Standard 2017
Report Type	:	Full Test (FT)
Full test report No.	:	---
P.O. No.	:	---
Additional Information	:	---
Sample Received Date	:	Jan 17, 2018
Sample Tested Date	:	Jan 17, 2018 – Jan 24, 2018
SGS Job No.	:	SL118001907641TX

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

Test Parameter	Test Method	Conclusion (**P**ass/**F**ail)
Extractable Heavy Metals	Others: DIN EN ISO 105-E04:2013. Leather: prDIN EN ISO 17072-1:2017 Analysis by ICP-OES / ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012	Pass
Total Cadmium	Polymers: Acid digestion – EN 1122:2001 Leather: prDIN EN ISO 17072-2:2017 Other materials: Microwave digestion. Analysis by ICP-OES or AAS: DIN EN ISO 11885:2009	Pass
Total Lead	Others: Microwave digestion. Leather: prDIN EN ISO 17072-2:2017. Analysis by ICP / AAS: DIN EN ISO 11885: 2009	Pass
▪ Σ PCP, TeCP and TriCP ▪ *o*-Phenylphenol, OPP	Extraction with KOH Analysis by GC-ECD / GC-MS	Pass
Azo-amines	Textile: ISO 14362-1:2017 / ISO 14362-3:2017	Pass
Formaldehyde	Non-leather: Adults: DIN EN ISO 14184-1:2011	Pass
Disperse Dyes and dyestuffs (Table A)	DIN 54231:2005	Pass
Organotin Compounds	ISO/TS 16179:2012	Pass
Σ Phthalates	CPSC-CH-C1001-09.3. Analysis by GC-MS.	Pass
Σ Short Chained Chloroparaffins (C10-C13)	Leather: DIN EN ISO 18219:2016. Analysis by GC-NCI-MS / GC-ECD Polymer: Solvent extraction. Analysis by GC-NCI-MS / GC-ECD	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO)	NP, OP: Solvent Extraction. Analysis by LC-MS. NPEO, OPEO: Textile: DIN EN ISO 18254-1:2016-09. Leather: DIN EN ISO 18218-1:2015 Plastic: Solvent Extraction. Analysis by LC-MS	Pass
Nonylphenol (NP)	Solvent Extraction. Analysis by LC-MS	Pass
Octylphenol (OP)	Solvent Extraction. Analysis by LC-MS	Pass
Polycyclic Aromatic Hydrocarbons (PAHs) and regulated PAHs of high concern	AfPS GS 2014:01 PAK. Analysis by GC-MS	Pass

Sample Photo

Signed for and on behalf of
SGS Hong Kong Ltd.

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Tai Po Kam, Iris
Assistant Technical Manager

Component List / List of Materials

Sample No.	Material No.	Component	Material	Color	Fiber Type *	Remark
A	1	dried ink	coating	black	NA	/
B	2	dried ink	coating	light grey	NA	/
C	3	dried ink	coating	dark grey	NA	/

Test Result:

Extractable Heavy Metals

Test Method: Others: Extraction in acidic perspiration solution-DIN EN ISO 105-E04:2013.
Leather: prDIN EN ISO 17072-1:2017.
Analysis by ICP-OES / ICP-MS-DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012.

		Result		
	CAS-No.	1	2	3
Cadmium (Cd)	7440-43-9	n.d.	n.d.	n.d.
Chromium (Cr)	7440-47-3	n.d.	n.d.	n.d.
Lead (Pb)	7439-92-1	n.d.	n.d.	n.d.
Mercury (Hg)	7439-97-6	n.d.	n.d.	n.d.
Conclusion	--	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

Requirement:	Infants (mg/kg)	Adults (mg/kg)	Detection Limit (mg/kg)
Cadmium	**0.1**	**0.1**	**0.1**
Chromium	**1.0**	**2.0**	**1.0**
Lead	**0.2**	**1.0**	**0.2**
Mercury	**0.02**	**0.02**	**0.02**

Total Cadmium

Test Method: Polymers: Acid digestion: EN 1122:2001
Metal, polymer, prints and paints: Microwave digestion.
Leather: prDIN EN ISO 17072-2:2017.
Analysis by ICP-OES or AAS-DIN EN ISO 11885:2009.

		Result		
	CAS-No.	1	2	3
Cadmium (Cd)	7440-43-9	n.d.	n.d.	n.d.
Conclusion	--	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
Detection Limit = 5 mg/kg

Requirement: 40 mg/kg

Total Lead

Test Method: Others: Microwave digestion.
Leather: prDIN EN ISO 17072-2:2017.
Analysis by ICP / AAS: DIN EN ISO 11885: 2009

		Result		
	CAS-No.	1	2	3
Lead (Pb)	7439-92-1	n.d.	n.d.	n.d.
Conclusion	--	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceed the TLV
Detection Limit = 5 mg/kg

Requirement: 40 mg/kg

Σ PCP, TeCP and TriCP

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

		Result		
	CAS-No.	1	2	3
Pentachlorophenol (PCP)	87-86-5	n.d.	n.d.	n.d.
Tetrachlorophenols (TeCP)	--	n.d.	n.d.	n.d.
Trichlorophenols (TriCP)	--	n.d.	n.d.	n.d.
Sum of PCP, TeCP and TriCP	--	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit = 0.05 mg/kg (for individual compound)

Requirement:
Adults: **0.5 mg/kg (Sum)**
Infants: **0.05 mg/kg (Sum)**

o-Phenylphenol, OPP

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

		Result		
	CAS-No.	1	2	3
Ortho-Phenyl Phenol (OPP)	--	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
Detection Limit = 0.5 mg/kg

Requirement: **1000 mg/kg**

Azo-Amines (Direct Reduction)

Test Method: Textile: DIN EN ISO 14362-1:2017. Analysis was conducted by GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3)-DIN EN ISO 14362-3:2017; with the use of GC-MS/ HPLC-DAD.

		Result		
	CAS-No.	1	2	3
4-Aminobiphenyl	92-67-1	n.d.	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.
3,3'-Dimethybenzidine	119-93-7	n.d.	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	n.d.	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.	n.d.
2,4 – Xylidine	95-68-1	n.d.	n.d.	n.d.
2,6 – Xylidine	87-62-7	n.d.	n.d.	n.d.
Conclusion	--	**PASS**	**PASS**	**PASS**

Note: n.d. = not detectable
mg/kg = ppm
* = Exceed the limit
# = Exceed the relevant requirement of the 2 / 3 composite mix.
Detection Limit = 5 mg/kg (for individual compound)

Requirement: **20 mg/kg (for individual compound)**

Remark: [+] Direct reduction refers to the extraction and reduction according to DIN EN ISO 14362-1:2017 clause 10.2 and relevant clauses.
4-Aminodiphenyl (CAS number 92-67-1), 2-Naphylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylene-diamine (CAS number 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 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) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) 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 (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.
The DIN EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5 mg/kg). Otherwise, the test method of DIN EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

Formaldehyde (Non-Leather)

Test Method: Non-leather: Adults: DIN EN ISO 14184-1:2011. Analysis was performed by UV/VIS spectrophotometer.

		Result		
	CAS-No.	1	2	3
Formaldehyde	50-00-0	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
Detection Limit = 13 mg/kg

Requirement:
Adults: 75 mg/kg

Disperse Dyes and Dyestuffs (Table A)

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

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

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the limit
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit = 15 mg/kg (for individual compound)
Requirement: 50 mg/kg (for individual compound)

Organotin Compounds

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

		Result		
	CAS-No.	1	2	3
Tributyltin (TBT)	--	n.d.	n.d.	n.d.
Triphenyltin (TPhT)	--	n.d.	n.d.	n.d.
Dibutyltin (DBT)	--	n.d.	n.d.	n.d.
Dioctyltin (DOT)	--	n.d.	n.d.	n.d.
Monobutyltin (MBT)	--	n.d.	n.d.	n.d.
Monooctyltin (MOT)	--	n.d.	n.d.	n.d.
Trioctyltin (TOT)	--	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceed the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit
Others = 0.05 mg/kg (for individual compound)

Requirement:

TBT	**Not Detected**
TPhT	**0.5 mg/kg (Infants) / 1 mg/kg (Adults)**
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 CPSC-CH-C1001-09.3. Analysis was performed by GC-MS.

		Result		
	CAS-No.	1	2	3
Diisononylphthalate (DINP)	28553-12-0	n.d.	n.d.	n.d.
Di-n-octylphthalate (DNOP)	117-84-0	n.d.	n.d.	n.d.
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.	n.d.	n.d.
Diisodecylphthalate (DIDP)	26761-40-0	n.d.	n.d.	n.d.
Butylbenzylphthalate (BBP)	85-68-7	n.d.	n.d.	n.d.
Dibutylphthalate (DBP)	84-74-2	n.d.	n.d.	n.d.
Diisobutylphthalate (DIBP)	84-69-5	n.d.	n.d.	n.d.
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	n.d.	n.d.	n.d.
Di-C711-branched alkylphalates (DHNUP)	68515-42-4	n.d.	n.d.	n.d.
Di-n-hexylphthalate (DHP)	84-75-3	n.d.	n.d.	n.d.
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	n.d.	n.d.	n.d.
Dipentylphthalate (DPP)	131-18-0	n.d.	n.d.	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.	n.d.	n.d.
Total	--	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit: 50 mg/kg (for individual compound)

Requirement: **500 mg/kg (Total)**

Short Chain Chloroparaffins (C10-C13) (SCCPs)

Test Method: Leather: DIN EN ISO 18219:2016. Analysis was performed by GC-NCI-MS / GC-ECD.
Polymer: Ultrasonic extraction with THF and ACN at 70℃. Analysis by GC-NCI-MS / GC-ECD

		Result		
	CAS-No.	1	2	3
Short Chained Chloroparaffins	85535-84-8	n.d.	n.d.	n.d.
Conclusion	--	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit = 50 mg/kg

Requirement: **1000 mg/kg**

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

Test Method: NP, OP: Extraction with THF. Analysis was performed by LC-MS.
NPEO, OPEO: Textile: DIN EN ISO 18254-1:2016. Leather: DIN EN ISO 18218-1:2015. Plastic: Solvent Extraction. Analysis was performed by LC-MS

		Result		
	CAS-No.	1	2	3
Nonylphenol (NP)	--	n.d.	n.d.	n.d.
Octylphenol (OP)	--	n.d.	n.d.	n.d.
Nonylphenol Ethoxylate (NPEO)	--	n.d.	n.d.	n.d.
Octylphenol Ethoxylate (OPEO)	--	n.d.	n.d.	n.d.
Sum of Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO)	--	n.d.	n.d.	n.d.
Conclusion	**--**	**PASS**	**PASS**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection Limit = 3 mg/kg

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

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

Test Method: With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC-MS.

		Result
	CAS-No.	1
Naphthalene (NAP)	91-20-3	0.31 mg/kg
Acenaphthylene (ANY)	208-96-8	n.d.
Acenaphthene (ANA)	83-32-9	n.d.
Fluorene (FLU)	86-73-7	n.d.
Phenanthrene (PHE)	85-01-8	n.d.
Anthracene (ANT)	120-12-7	n.d.
Fluoranthene (FLT)	206-44-0	n.d.
Pyrene (PYR)	129-00-0	n.d.
Benzo(j)fluoranthene (BjF)	205-82-3	n.d.
Benzo(a)anthracene (BaA)	56-55-3	n.d.
Chrysene (CHR)	218-01-9	n.d.
Benzo(b)fluoranthene (BbF)	205-99-2	n.d.
Benzo(k)fluoranthene (BkF)	207-08-9	n.d.
Benzo(a)pyrene (BaP)	50-32-8	n.d.
Indeno(1,2,3-cd)pyrene (IPY)	193-39-5	n.d.
Dibenzo(a,h)anthracene (DBA)	53-70-3	n.d.
Benzo(g,h,i)perylene (BPE)	191-24-2	n.d.
Benzo(e)pyrene (BeP)	192-97-2	n.d.
Total 18 PAHs	--	0.31 mg/kg
Conclusion	**--**	**PASS**

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the TLV
# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.
Detection 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**

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