Test Report

Report No. A2230090177101

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Applicant	INKCUPS NOW CORPS
Address	310 ANDOVER STREET DANVERS MA 01923, USA

Summary Report	PASS
Failure Test Items	--
Sample Description	ICN SB ECO SERIES INK - 165 BLACK
TRF No.	65951
Brand	Puma
Division	Apparel
Product type	Other
Test Program	RSL
Sourcing Office	Puma Global Sourcing - PGS So. Africa - South Africa
Country of Origin	Italy
SampleType	Material
Test Package/Material Type	Prints, Inks (screen print, plastisol, etc)
Sample Status	Pre-Production
Season	AH2023
T1 Supplier	--
T1 Puma Supplier#	--
T1 FFC#	--
T2 Supplier	Ink Cups - Hong Kong
T2 Puma Supplier#	--
T2 FFC#	--

Approved by Hill Zheng Date Mar. 13, 2023

Hill Zheng
Technical Manager

No. S597411579

Centre Testing International Group Co.,Ltd. CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Supplier Material Name	ICN SB ECO SERIES INK - 165 BLACK
Puma Material Code	--
Style #/Chemical Product #	--
Color Way	--
Material Color / Code	--
Purchase Order#	--
Retest?	--
Previous RSL Submit#	--
Remark	--
Main Color	--
Specification	--
Main Material	--
Sub Material Type	--
Test Specification	PUMA RSL Test Matrix Version 2.2022 (use from March 1, 2022) & The AFIRM RSL(version 07, 2022)
Sample Received Date	Mar. 6, 2023
Testing Period	Mar. 6, 2023 to Mar. 13, 2023

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Test Report

Summary of Test Result(s)		
Test Item(s)	**Test Standard**	**Test Result/Conclusion**
pH value	EN ISO 3071:2020	See page 5
Alkylphenols and Alkylphenol Ethoxylates	NP,OP: 1 g sample/20 ml THF,sonication for 60 minutes at 70℃,analysis according to EN 1SO 21084:2019, NPEO,OPEO: EN ISO 18254-1:2016	PASS
Azo Dyes	EN ISO 14362-1:2017& EN ISO 14362-3:2017	PASS
Disperse dyestuffs(allergenous)	DIN 54231:2005	PASS
Disperse dyestuffs(carcinogenic)	DIN 54231:2005	PASS
Flame retardants	EN ISO 17881-1:2016	N/A
Phosphate flame retardants	EN ISO 17881-2:2016	N/A
Formaldehyde	EN ISO 14184-1:2011	PASS
Extractable heavy metals	DIN EN 16711-2:2016	PASS
Arsenic(As)	DIN EN 16711-1:2016	PASS
Cadmium (Cd)	DIN EN 16711-1:2016	PASS
Lead (Pb)	CPSC-CH-E1003-09.1	PASS
Mercury (Hg)	DIN EN 16711-1:2016	PASS
Vinyl Chloride Monomer	EN ISO 6401:2008	PASS
Monomers，Styrene	Extraction in Methanol GC/MS, sonication at 60 degrees C for 60 minutes	PASS
Organotin compounds	CEN ISO/TS 16179:2012	PASS
Ortho-phenylphenol	DIN 50009:2021-01	PASS
PFOS and Related Substances	EN ISO 23702-1:2018	PASS
Perfluorooctanoic acid related substances and Its Salts	EN ISO 23702-1:2018	PASS

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Summary of Test Result(s)		
Test Item(s)	**Test Standard**	**Test Result/Conclusion**
Phthalates	CPSC-CH-C1001-09.4	PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	PASS
Solvents/Residuals	DIN CEN ISO/TS 16189:2013	PASS
Volatile Organic Compounds(VOC)	GC/MS headspace 45 minutes at 120 degrees C	PASS
**********For Further Details, Please Refer to the Following Page(s) **********		

N/A = Not Applicable

Test Report

Tests Conducted (As Requested by the Client)

1 pH-Value(EN ISO 3071:2020)

Tested Item(s)	Test Result	Client's Limit
	001	
pH value	5.5	~

Remark: 1.Temperature of extracting solution: 21.4℃
2.Extracting solution used: 0.1mol/L KCl
3.pH-Value of 0.1mol/L KCl: 5.8

2 Alkylphenols and Alkylphenol Ethoxylates (NP,OP: 1 g sample/20 ml THF,sonication for 60 minutes at 70℃,analysis according to EN 1SO 21084:2019, NPEO,OPEO: EN ISO 18254-1:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Octylphenol(OP)	140-66-9	N.D.	3	--
2	Nonylphenol(NP)	25154-52-3	N.D.	3	--
3	sum of (NP+OP)	--	N.D.	--	≤10
4	Nonylphenol Ethoxylate(NPEOs)	68412-54-4/ 9016-45-9	N.D.	10	--
5	Octylphenol Ethoxylate(OPEOs)	9002-93-1	N.D.	10	--
6	sum of(NP+OP+NPEOs+OPEOs)	--	N.D.	--	≤100

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3 Azo Dyes (EN ISO 14362-1:2017& EN ISO 14362-3:2017)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	4-aminobiphenyl	92-67-1	N.D.	5	≤20
2	Benzidine	92-87-5	N.D.	5	≤20
3	4-chloro-o-toluidine	95-69-2	N.D.	5	≤20
4	2-naphthylamine	91-59-8	N.D.	5	≤20
5	o-aminoazotoluene	97-56-3	N.D.	5	≤20
6	5-nitro-o-toluidine	99-55-8	N.D.	5	≤20
7	4-chloroaniline	106-47-8	N.D.	5	≤20
8	2,4-diaminoanisole	615-05-4	N.D.	5	≤20
9	4,4'-Diaminodiphenylmethane	101-77-9	N.D.	5	≤20
10	3,3'-dichlorobenzidine	91-94-1	N.D.	5	≤20
11	3,3'-dimethoxybenzidine	119-90-4	N.D.	5	≤20
12	3,3'-dimethylbenzidine	119-93-7	N.D.	5	≤20
13	4,4'-methylenedi-o-toluidine	838-88-0	N.D.	5	≤20
14	6-methoxy-m-toluidine	120-71-8	N.D.	5	≤20
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	N.D.	5	≤20
16	4,4'-oxydianiline	101-80-4	N.D.	5	≤20
17	4,4'-thiodianiline	139-65-1	N.D.	5	≤20
18	o-Toluidine	95-53-4	N.D.	5	≤20
19	2,4-diaminotoluene	95-80-7	N.D.	5	≤20
20	2,4,5-trimethylaniline	137-17-7	N.D.	5	≤20
21	2-Methoxyaniline (o-Anisidine)	90-04-0	N.D.	5	≤20
22	4-aminoazobenzene	60-09-3	N.D.	5	≤20
23	2,4-xylidine	95-68-1	N.D.	5	≤20
24	2,6-xylidine	87-62-7	N.D.	5	≤20
25	2,4-diaminoanisole sulphate	39156-41-7	N.D.	5	≤20
26	2-Naphthylammoniumacetate	553-00-4	N.D.	5	≤20
27	4-chloro-o-toluidinium chloride	3165-93-3	N.D.	5	≤20
28	2,4,5-trimethylaniline hydrochloride	21436-97-5	N.D.	5	≤20

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4 Disperse dyestuffs(allergenous) (DIN 54231:2005)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Disperse Blue 1	2475-45-8	N.D.	15	≤30
2	Disperse Blue 3	2475-46-9	N.D.	15	≤30
3	Disperse Blue 7	3179-90-6	N.D.	15	≤30
4	Disperse Blue 26	3860-63-7	N.D.	15	≤30
5	Disperse Blue 102	12222-97-8	N.D.	15	≤30
6	Disperse Blue 106	12223-01-7	N.D.	15	≤30
7	Disperse Blue 124	61951-51-7	N.D.	15	≤30
8	Disperse Brown 1	23355-64-8	N.D.	15	≤30
9	Disperse Yellow 1	119-15-3	N.D.	15	≤30
10	Disperse Yellow 3	2832-40-8	N.D.	15	≤30
11	Disperse Yellow 7	6300-37-4	N.D.	15	≤30
12	Disperse Yellow 9	6373-73-5	N.D.	15	≤30
13	Disperse Yellow 23	6250-23-3	N.D.	15	≤30
14	Disperse Yellow 39	12236-29-2	N.D.	15	≤30
15	Disperse Yellow 49	54824-37-2	N.D.	15	≤30
16	Disperse Yellow 56	54077-16-6	N.D.	15	≤30
17	Disperse Orange 1	2581-69-3	N.D.	15	≤30
18	Disperse Orange 3	730-40-5	N.D.	15	≤30
19	Disperse Orange 37/76/59	13301-61-6; 12223-33-5; 51811-42-8	N.D.	15	≤30
20	Disperse Orange 149	85136-74-9	N.D.	15	≤30
21	Disperse Red 1	2872-52-8	N.D.	15	≤30
22	Disperse Red 11	2872-48-2	N.D.	15	≤30
23	Disperse Red 17	3179-89-3	N.D.	15	≤30
24	Disperse Red 151	61968-47-6	N.D.	15	≤30
25	Malachite Green	10309-95-2; 569-64-2;2437-29-8	N.D.	15	≤30
26	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol（Solvent Violet 8）	561-41-1	N.D.	15	≤30

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
27	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	N.D.	15	≤30
28	Solvent Yellow 2	60-11-7	N.D.	15	≤30
29	phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	N.D.	15	≤30
30	C.I. Disperse Blue 35A	56524-77-7	N.D.	15	≤30
31	C.I. Disperse Blue 35B	56524-76-6	N.D.	15	≤30

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5 Disperse dyestuffs(carcinogenic) (DIN 54231:2005)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Disperse Orange 11	82-28-0	N.D.	15	≤30
2	Acid Red 26	3761-53-3	N.D.	15	≤30
3	Basic Red 9	569-61-9	N.D.	15	≤30
4	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2 ,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9/14 426-25-6	N.D.	15	≤30
5	Basic Violet 14	632-99-5	N.D.	15	≤30
6	Disodium 4-amino-3-[[4'-[(2,4-diamino phenyl)azo]4-yl]azo]-5-hydro xy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7	N.D.	15	≤30
7	Direct Blue 6	2602-46-2	N.D.	15	≤30
8	Direct Brown 95	16071-86-6	N.D.	15	≤30
9	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-amino naphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	N.D.	15	≤30

6 Formaldehyde (EN ISO 14184-1:2011)

Tested Item(s)	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
	001		
Formaldehyde	N.D.	16	≤16

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7 Extractable heavy metals (DIN EN 16711-2:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Lead(Pb)	7439-92-1	N.D.	0.2	≤0.2
2	Cadmium(Cd)	7440-43-9	N.D.	0.05	≤0.1
3	Mercury(Hg)	7439-97-6	N.D.	0.02	≤0.02
4	Chromium(Cr)	7440-47-3	N.D.	0.02	--
5	Antimony(Sb)	7440-36-0	N.D.	0.2	≤30
6	Copper(Cu)	7440-50-8	N.D.	1.0	≤25
7	Barium(Ba)	7440-39-3	N.D.	0.2	≤1000
8	Selenium(Se)	7782-49-2	N.D.	1.0	≤500
9	Cobalt(Co)	7440-48-4	N.D.	0.1	≤1
10	Nickel(Ni)	7440-02-0	N.D.	0.05	≤1
11	Arsenic(As)	7440-38-2	N.D.	0.1	≤0.2

8 Arsenic(As) (DIN EN 16711-1:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Arsenic(As)	7440-38-2	N.D.	10	≤100

9 Cadmium (Cd) (DIN EN 16711-1:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Cadmium(Cd)	7440-43-9	N.D.	5	≤40

10 Lead (Pb) (CPSC-CH-E1003-09.1)

Tested Item(s)	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
	001		
Lead(Pb)	N.D.	5	≤90

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11 Mercury (Hg) (DIN EN 16711-1:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Mercury(Hg)	7439-97-6	N.D.	0.1	≤0.5

12 Vinyl Chloride Monomer (EN ISO 6401:2008)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Vinyl Chloride Monomer	75-01-4	N.D.	0.2	≤1

13 Monomers，Styrene (Extraction in Methanol GC/MS, sonication at 60 degrees C for 60 minutes)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Styrene	100-42-5	N.D.	10	≤500

14 Organotin compounds (CEN ISO/TS 16179:2012)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Monobutyltin(MBT)	1118-46-3	N.D.	0.05	≤1
2	Dibutyltin(DBT)	683-18-1	N.D.	0.05	≤1
3	Tributyltin(TBT)	1461-22-9	N.D.	0.05	≤0.5
4	Triphenyltin(TPHT)	639-58-7	N.D.	0.05	≤0.5
5	Tricyclohexyltin(TCyT)	3091-32-5	N.D.	0.05	≤1
6	Dioctyltin(DOT)	3542-36-7	N.D.	0.05	≤1
7	Trioctyltin(TOT)	2587-76-0	N.D.	0.05	≤1
8	Trimethyltin(TMT)	1631-73-8	N.D.	0.05	≤1
9	Tripropyltin(TPrT)	2279-76-7	N.D.	0.05	≤1

15 Ortho-phenylphenol (DIN 50009:2021-01)

Tested Item(s)	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
	001		
Ortho-phenylphenol(OPP)	N.D.	0.5	≤1000

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16 PFOS and Related Substances (EN ISO 23702-1:2018)

Code	Tested Item(s)	CAS No.	Test Result(μg/m³)	MDL (μg/m³)	Client's Limit (μg/m³)
			001		
1	Perfluorooctanesulfonic acid(PFOS)	1763-23-1	N.D.	0.5	--
2	Perfluorooctanesulfonic acid, potassium salt(PFOS-K)	2795-39-3	N.D.	0.5	--
3	Perfluorooctanesulfonic acid, lithium salt(PFOS-Li)	29457-72-5	N.D.	0.5	--
4	Perfluorooctanesulfonic acid, ammonium salt(PFOS-NH4)	29081-56-9	N.D.	0.5	--
5	Perfluorooctane sulfonate diethanolamine salt(PFOS-NH(OH)2)	70225-14-8	N.D.	0.5	--
6	Perfluorooctanesulfonic acid, tetraethylammonium salt(PFOS-N(C2H5)4)	56773-42-3	N.D.	0.5	--
7	N-Ethylperfluoro-1-octanesulfonamide(N-Et-FOSA)	4151-50-2	N.D.	0.5	--
8	N-Methylperfluoro-1-octanesulfonamide(N-Me-FOSA)	31506-32-8	N.D.	0.5	--
9	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol(N-Et-FOSE)	1691-99-2	N.D.	0.5	--
10	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol(N-Me-FOSE)	24448-09-7	N.D.	0.5	--
11	Perfluoro-1-octanesulfonyl fluoride(PFOSF)	307-35-7	N.D.	0.5	--
12	Perfluorooctane sulfonamide(PFOSA)	754-91-6	N.D.	0.5	--
13	PFOS and related substances(Total(PFOS))	--	N.D.	--	≤1

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17 Perfluorooctanoic acid related substances and Its Salts (EN ISO 23702-1:2018)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Perfluorooctanoic Acid(PFOA)	335-67-1	N.D.	0.010	--
2	Sodium perfluorooctanoate(PFOA-Na)	335-95-5	N.D.	0.010	--
3	Potassium perfluorooctanoate(PFOA-K)	2395-00-8	N.D.	0.010	--
4	Silver perfluorooctanoate(PFOA-Ag)	335-93-3	N.D.	0.010	--
5	Perfluorooctanoyl fluoride(PFOA-F)	335-66-0	N.D.	0.010	--
6	Ammonium pentadecafluorooctanoate(APFO)	3825-26-1	N.D.	0.010	--
7	Perfluorooctanoic Acid (PFOA) and its salts(SUM（PFOA and its salts）)	--	N.D.	--	≤0.025
8	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid(8:2 FTS)	39108-34-4	N.D.	0.500	--
9	Methyl perfluorooctanoate(Me-PFOA)	376-27-2	N.D.	0.010	--
10	Ethyl perfluorooctanoate(Et-PFOA)	3108-24-5	N.D.	0.010	--
11	1H,1H,2H,2H-Perfluoro-1-decanol(8：2 FTOH)	678-39-7	N.D.	0.500	--
12	1H,1H,2H,2H-Heptadecafluorodecyl acrylate(8:2 FTAC)	27905-45-9	N.D.	0.500	--
13	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester(8:2 FTMA)	1996-88-9	N.D.	0.500	--
14	PFOA-related substances(SUM(PFOA-related substances))	--	N.D.	--	≤1

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18 Phthalates (CPSC-CH-C1001-09.4)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Dibutyl phthalate(DBP)	84-74-2	N.D.	30	≤500
2	Butyl benzyl phthalate(BBP)	85-68-7	N.D.	30	≤500
3	Di-(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	30	≤500
4	Di-n-octyl phthalate(DNOP)	117-84-0	N.D.	30	≤500
5	Di-isononyl phthalate(DINP)	28553-12-0, 68515-48-0	N.D.	50	≤500
6	Di-iso-decyl phthalate(DIDP)	26761-40-0, 68515-49-1	N.D.	50	≤500
7	Dimethyl phthalate(DMP)	131-11-3	N.D.	30	≤500
8	Diethyl phthalate(DEP)	84-66-2	N.D.	30	≤500
9	Dipropyl phthalate(DPrP)	131-16-8	N.D.	30	≤500
10	Diisobutyl phthalate(DIBP)	84-69-5	N.D.	30	≤500
11	Dipentyl phthalate(DPP/DPENP)	131-18-0	N.D.	30	≤500
12	Dicyclohexyl phthalate(DCHP)	84-61-7	N.D.	30	≤500
13	Diisooctyl phthalate(DIOP)	27554-26-3	N.D.	50	≤500
14	Di-n-hexyl phthalate(DNHP/DHEXP)	84-75-3	N.D.	30	≤500
15	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	N.D.	30	≤500
16	Diisopentylphthalate(DIPP)	605-50-5	N.D.	30	≤500
17	N-Pentyl-isopentyl phthalate(NIPP)	776297-69-9	N.D.	30	≤500
18	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP)	68515-42-4	N.D.	50	≤500
19	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	N.D.	50	≤500

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Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
20	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(BADP)	84777-06-0	N.D.	30	≤500
21	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(NHIHP)	68515-50-4	N.D.	50	≤500
22	Di-iso-hexyl-phthalates(DIHxP)	71850-09-4	N.D.	30	≤500
23	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5; 68648-93-1	N.D.	50	≤500
24	sum of Phthalates	--	N.D.	--	≤1000

19 Polycyclic Aromatic Hydrocarbons (PAHs) (AfPS GS 2019:01 PAK)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Naphthalene	91-20-3	N.D.	0.2	--
2	Phenanthrene	85-01-8	N.D.	0.2	--
3	Anthracene	120-12-7	N.D.	0.2	--
4	Fluoranthene	206-44-0	N.D.	0.2	--
5	Pyrene	129-00-0	N.D.	0.2	--
6	Chrysene	218-01-9	N.D.	0.2	≤1
7	Benzo(a)anthracene	56-55-3	N.D.	0.2	≤1
8	Benzo(b)fluoranthene	205-99-2	N.D.	0.2	≤1
9	Benzo(k)fluoranthene	207-08-9	N.D.	0.2	≤1
10	Benzo(j)fluoranthene	205-82-3	N.D.	0.2	≤1
11	Benzo(a)pyrene	50-32-8	N.D.	0.2	≤1
12	Benzo(e)pyrene	192-97-2	N.D.	0.2	≤1
13	Dibenzo(a,h)anthracene	53-70-3	N.D.	0.2	≤1
14	Benzo(g,h,i)perylene	191-24-2	N.D.	0.2	--
15	Indenol(1,2,3-cd)pyrene	193-39-5	N.D.	0.2	--
16	Acenaphthene	83-32-9	N.D.	0.2	--
17	Fluorene	86-73-7	N.D.	0.2	--
18	Acenaphthylene	208-96-8	N.D.	0.2	--
19	Sum 18 PAHs	--	N.D.	--	≤10

20 Solvents/Residuals (DIN CEN ISO/TS 16189:2013)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	N,N-dimethylformamide(DMFa)	68-12-2	N.D.	50	≤500
2	N,N-dimethylacetamide(DMAC)	127-19-5	N.D.	50	≤1000
3	N-Methyl pyrrolidone(NMP)	872-50-4	N.D.	50	≤1000
4	Formamide(FAM)	75-12-7	N.D.	50	≤1000

Test Report

21 Volatile Organic Compounds(VOC) (GC/MS headspace 45 minutes at 120 degrees C)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Benzene	71-43-2	N.D.	1	≤5
2	Toluene	108-88-3	N.D.	10	--
3	o-Xylene	95-47-6	N.D.	10	--
4	m-Xylene	108-38-3	N.D.	10	--
5	p-Xylene	106-42-3	N.D.	10	--
6	Trichloromethane	67-66-3	N.D.	10	--
7	Carbon Tetrachloride	56-23-5	N.D.	10	--
8	1,1,1-Trichloroethane	71-55-6	N.D.	10	--
9	1,1,2-Trichloroethane	79-00-5	N.D.	10	--
10	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	10	--
11	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	10	--
12	1,1-Dichloroethylene	75-35-4	N.D.	10	--
13	Trichloroethylene	79-01-6	N.D.	10	--
14	Tetrachloroethylene	127-18-4	N.D.	10	--
15	Pentachloroethane	76-01-7	N.D.	10	--
16	Ethylbenzene	100-41-4	N.D.	10	--
17	1,2-Dichloroethane	107-06-2	N.D.	10	--
18	CyClohexanone	108-94-1	N.D.	20	--
19	Carbon Disulfide	75-15-0	N.D.	20	--
20	Sum of Volatile Organic compounds (VOCs excluding benzene)	--	N.D.	--	≤1000

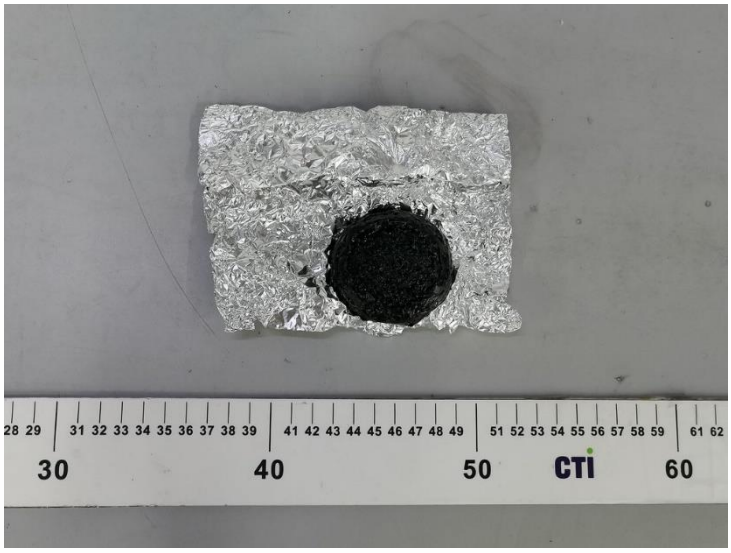
Remark: "---"Means Not Applicable,
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

Tested Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black ink

Test Report

Photo(s) of the sample(s)



Statement:

1. This report is considered invalidated without approval signature, special stamp;
2. The sample(s) and sample Information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The test result(s) shown in this entrusted test report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***