

TEST REPORT

Applicant : Shenzhen Weituo Digital Technology Co. LTD
Address : No.61, Longhu road, Longdong Community, Baolong Street, Longgang District,
Shenzhen City, China

Report on the submitted sample said to be

Sample name : aqueous ink
Model : Printing ink
Trade Name : 
Manufacture : Shenzhen Weituo Digital Technology Co. LTD
Address : No.61, Longhu road, Longdong Community, Baolong Street, Longgang District,
Shenzhen City, China
Buyer : N/A
received date : May 29, 2023
Testing period : May 29, 2023 – Jun. 03, 2023

Test Sample	Testing Requested:	Results
001	German Food Articles of Daily Use and Feed Code of September 1 2005(LFGB)Section 30 & 31 Regulation (EC) No 1935/2004 Commission Regulation (EU) No 10/2011 and its amending regulation and BfR recommendation	PASS
	1. Overall Migration	
	2. Specific Migration of Heavy Metal	
	3. Specific Migration of Phthalates	
	4. Residual vinyl chloride monomer	



Signed for and on behalf of

Bert Yang

Lab Manager : Bert Yang

Jun. 03, 2023

Date of issue



**Test Result:****Sample Description**

No	Sample	Description
001	aqueous ink	Paper

1. European Policy Statement & Resolution ResAP(2004)5 on Silicones Used for Food Contact**Applications -Overall Migration**

Test Method : Regulation (EU) No. 10/2011 with its amendments ANNEX II and ANNEX V[#],
Regulation (EU) 2020/1245[#], EN 1186-3:2002 (Total Immersion Method)[#], EN 1186-
14:2002 (Substitute tests)

<u>Specimen No.</u>			<u>001</u>			Limit (mg/dm ²)
<u>Migration</u>			1 st	2 nd	3 rd	
Simulant Used	Test Condition		Result (mg/dm ²)	Result (mg/dm ²)	Result (mg/dm ²)	
	Time	Temp				
3% Acetic Acid	24hr(s)	100 °C	ND	ND	ND	10
10% Ethanol	24hr(s)	70 °C	ND	ND	ND	10
Substitute - 95% Ethanol	24hr(s)	60 °C	ND	ND	ND	10
Conclusion			PASS			

2. Commission Regulation (EU) No 10/2011&(EU) 2015/174 & (EU) 2020/1245and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments, Specific Migration - Heavy Metals

Test Method : Regulation (EU) No. 10/2011 with its amendments ANNEX II and ANNEX V[#],
Regulation (EU) 2020/1245[#], EN 13130-1:2004[#], (Total Immersion Method)[#]

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°Cx 0.5hr(s) follow by 40°Cx 10day(s)°C

Specimen No.	Result(mg/kg)			Unit	RL (mg/kg)	Migratable Limit (mg/kg)
	001					
Migration	1 st	2 nd	3 rd			
Aluminum (Al)	ND	ND	ND	mg/kg	0.2	1
Antimony (Sb)	ND	ND	ND	mg/kg	0.02	0.04
Arsenic (As)	ND	ND	ND	mg/kg	0.01	ND
Barium (Ba)	ND	ND	ND	mg/kg	0.2	1
Cadmium (Cd)	ND	ND	ND	mg/kg	0.002	ND
Chromium (Cr)	ND	ND	ND	mg/kg	0.01	ND
Cobalt (Co)	ND	ND	ND	mg/kg	0.02	0.05
Copper (Cu)	ND	ND	ND	mg/kg	0.2	5
Europium (Eu)	ND	ND	ND	mg/kg	0.01	-
Gadolinium (Gd)	ND	ND	ND	mg/kg	0.01	-
Iron (Fe)	ND	ND	ND	mg/kg	0.2	48
Lanthanum (La)	ND	ND	ND	mg/kg	0.01	-
Lead (Pb)	ND	ND	ND	mg/kg	0.01	ND
Lithium (Li)	ND	ND	ND	mg/kg	0.2	0.6
Manganese (Mn)	ND	ND	ND	mg/kg	0.2	0.6
Mercury (Hg)	ND	ND	ND	mg/kg	0.01	ND
Nickel (Ni)	ND	ND	ND	mg/kg	0.02	0.02
Terbium (Tb)	ND	ND	ND	mg/kg	0.01	-
Zinc (Zn)	ND	ND	ND	mg/kg	0.2	5
Sun of the metal LA + EU + Gd + Tb	ND	ND	ND	mg/kg	-	0.05
Comment	PASS					

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. ND = Not detected. Result value is less than reporting limit (RL).

3. Specific Migration of Phthalates

The determination was carried out on the migrate by GC-MS and internal standardization and calibration over the whole procedure.

Compound	Abbrev.	Results 95 % ethanol [mg/kg food simulant]	Requirement* [mg/kg food simulant]
n-Decyl-n-octylphthalate	NDNOP	< 0.05	in Sum max. 5**
Di-n-decylphthalate	DNDP	< 0.05	
Di-n-octylphthalate	DNOP	< 0.05	
Benzylbutylphthalate	BBP	< 0.05	max. 30
Di-(2-ethylhexyl)phthalate	DEHP	< 0.05	max. 1.5
Dibutylphthalate	DBP	< 0.04	max. 0.3
Phthalic acid, diesters with primary saturated C ₈ -C ₁₀ -branched alcohols, more than 60 % C ₉	-	< 0.05	in Sum max. 9
Phthalic acid, diesters with primary saturated C ₉ -C ₁₁ -alcohols more than 90 % C ₁₀	-	< 0.05	
Tributylacetylitate	TBAC	< 0.05	max. 60
Dibutylsebacate	DBS	< 0.05	max. 60
Diallylphthalate	DiAIP	< 0.01	max. 0.01
Diethylhexyladipate	DEHA	< 0.03	max. 30
Di-(2-ethylhexyl)terephthalate	DEHT	< 0.05	max. 60
Diisononyl-cyclohexyldicarboxylate	DINCH	< 0.04	max. 60

Limit of quantification per substance: 0.05 mg/kg food simulant and 0.01 mg/kg (DiAIP).

* according to Regulation (EU) No. 10/2011 (migratable phthalates)

Remark:

1. Test condition & simulant were specified by client.

4. Residual vinyl chloride monomer

Method: With reference to EN 13130-5:2004. Analysis was performed by GC/MS

Simulant Used: 95% Ethanol(V/V) Aqueous Solution

Test Condition: : 40 °C for 0.5 hrs

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	001		
Vinyl Chloride Monomer content	N.D	0.01	1
Comment	PASS	--	--

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. N.D = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Test condition & simulant were specified by client.

Picture of sample



Photo 1

**** THE END OF REPORT ****