

检测报告  
TEST REPORT

报告编号 (No.) : UTS24080158M 报告日期 (Report Date) : 2024/08/20

委托单位/Client : 金东纸业 (江苏) 股份有限公司  
Gold East Paper (Jiangsu) Co., Ltd.  
地址/Address : 中国江苏省镇江市大港兴港东路 8 号  
No.8 Xing Gang East Road, Dagang, Zhenjiang, Jiangsu China.

以下样品信息由申请人提供及确认:

The sample(s) information below is/are provided and confirmed by client:

样品名称/Sample Name : 铜版纸/Art Paper  
接样日期/Receiving Date : 2024/08/14  
检测项目/Test Item : 持久性有机污染物 (POPs) /Persistent Organic Pollutants (POPs)  
结论/Conclusion : 申请人所提供的样品的测试结果符合持久性有机污染物(POPs)法规 (EU)2019/1021 及其修订指令(EU) 2020/784 & (EU) 2020/1204 & (EU) 2023/1608 的要求。/Based on the analysis of the submitted sample, the results meet the requirements of Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 and its amendments Directive (EU) 2020/784 & (EU) 2020/1204 & (EU) 2023/1608.

签 发  
Approved by 樊建红 授权签字人审 核  
Reviewed by 赵方方编 制  
Prepared by 黄佳蔚

Page 1 of 7

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江苏省优联检测技术有限公司

地址: 苏州市吴中区越溪街道北官渡路50号3幢 215021

电话 (Tel): +0512-66358200

UNITED TESTING SERVICES (JIANGSU) CO., LTD.

Address: Building 3, No.50 Beiguan Road, Wuzhong Zone, Suzhou, Jiangsu, China, 215021

传真 (Fax): +0512-66358088

[www.uts.com.cn](http://www.uts.com.cn)

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## 1、测试标准/Test Standard

参考/Refer to EPA 3550C:2007 &amp; EPA 3540C:1996

## 2、测试日期/Test Date

2024/08/14-2024/08/16

## 3、测试设备/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
气相色谱质谱联用仪 GC-MS	M-1-583	2025/12/14
气相色谱质谱联用仪 GC-MS	M-1-582	2025/12/14
气相色谱仪 GC	M-1-618	2024/11/29
液相色谱质谱联用仪 LC-MS	M-1-615	2025/09/18

## 4、测试结果/Test Result

## 4.1、持久性有机污染物 (POPs) /Persistent Organic Pollutants (POPs)

序号 No.	检测项目 Test items	CAS No.	方法检测 限 MDL (mg/kg)	检测结果 Results (mg/kg)	限值* Limits (mg/kg)
1	四溴二苯醚(C <sub>12</sub> H <sub>6</sub> Br <sub>4</sub> O)/ Tetrabromodiphenyl ether	40088-47-9 and others	5	N.D.	≤10mg/kg
2	五溴二苯醚(C <sub>12</sub> H <sub>5</sub> Br <sub>5</sub> O)/ Pentabromodiphenyl ether	32534-81-9 and others	5	N.D.	≤10mg/kg
3	六溴二苯醚(C <sub>12</sub> H <sub>4</sub> Br <sub>6</sub> O)/ Hexabromodiphenyl ether	36483-60-0 and others	5	N.D.	≤10mg/kg
4	七溴二苯醚(C <sub>12</sub> H <sub>3</sub> Br <sub>7</sub> O)/ Heptabromodiphenyl ether	68928-80-3 and others	5	N.D.	≤10mg/kg
5	双(五溴苯)醚(十溴二苯醚; decaBDE) / Bis(pentabromophenyl) ether (decabromodiphenyl ether; decaBDE)	1163-19-5	5	N.D.	≤10mg/kg
					总和 ≤500mg/kg/ Sum of mixtures ≤500mg/kg

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6	全氟辛烷磺酸及其衍生物 (PFOS) C <sub>8</sub> F <sub>17</sub> SO <sub>2</sub> X (X = OH、金属盐 (O-M+)、卤化物、酰胺和其他衍生物, 包括聚合物) / Perfluorooctane sulfonic acid and its derivatives (PFOS) C <sub>8</sub> F <sub>17</sub> SO <sub>2</sub> X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)	1763-23-1 2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3 251099-16-8 4151-50-2 31506-32-8 1691-99-2 24448-09-7 307-35-7 and others	0.025	N.D.	物质/混合物 ≤ 10mg/kg 半成品/物品 ≤ 1000mg/kg 纺织品/涂层材料 ≤ 1μg/m <sup>2</sup> /Substance/mixture ≤ 10mg/kg Semi finished products/items ≤ 1000mg/kg Textile/coating materials ≤ 1μg/m <sup>2</sup>
7	DDT (滴滴涕) (1,1,1-三氯-2,2-双(4-氯苯基)乙烷) / (1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane)	50-29-3	5	N.D.	禁用 Prohibition
8	氯丹/ Chlordane	57-74-9	5	N.D.	禁用 Prohibition
9	六氯环己烷, 包括林丹/ Hexachlorocyclohexanes, including lindane	58-89-9 319-84-6 319-85-7 608-73-1	5	N.D.	禁用 Prohibition
10	狄氏剂/ Dieldrin	60-57-1	5	N.D.	禁用 Prohibition
11	异狄氏剂/ Endrin	72-20-8	5	N.D.	禁用 Prohibition
12	七氯/ Heptachlor	76-44-8	5	N.D.	禁用 Prohibition
13	硫丹/ Endosulfan	115-29-7 959-98-8 33213-65-9	5	N.D.	禁用 Prohibition
14	六氯苯/ Hexachlorobenzene	118-74-1	5	N.D.	物质、混合物或物品 ≤ 10mg/kg/Substance, mixture, or item ≤ 10mg/kg
15	十氯酮/ Chlordecone	143-50-0	5	N.D.	禁用 Prohibition
16	艾氏剂/ Aldrin	309-00-2	5	N.D.	禁用 Prohibition

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17	五氯苯/ Pentachlorobenzene	608-93-5	5	N.D.	禁用 Prohibition
18	多氯联苯(PCB)/ Polychlorinated Biphenyls (PCB)	1336-36-3 and others	5	N.D.	禁用 Prohibition
19	灭蚁灵/ Mirex	2385-85-5	5	N.D.	禁用 Prohibition
20	毒杀芬/ Toxaphene	8001-35-2	5	N.D.	禁用 Prohibition
21	六溴联苯/ Hexabromobiphenyl	36355-01-8	5	N.D.	禁用 Prohibition
22	六溴环十二烷 “六溴环十二烷”是指：六溴环十二烷、 1,2,5,6,9,10-六溴环十二烷及其主要非对映异构体： α-六溴环十二烷； β-六溴环十二烷； γ-六溴环十二烷/ Hexabromocyclododecane 'Hexabromocyclododecane' means:Hexabromocyclododecane,1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers:alpha-hexabromocyclododecane; beta-hexabromocyclododecane; and gamma-hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	20	N.D.	物质、混合物、物品或作为阻燃物质的组成部分≤100mg/kg/Substance, mixture, item or component of flame retardant material≤100mg/kg
23	六氯丁二烯/ Hexachlorobutadiene	87-68-3	5	N.D.	禁用 Prohibition
24	五氯苯酚及其盐类和酯类/ Pentachlorophenol and its salts and esters	87-86-5 and others	0.1	N.D.	物质、混合物或物品 ≤5mg/kg/Substance, mixture or item≤5mg/kg
25	多氯化萘/ Polychlorinated naphthalenes	70776-03-3 and others	5	N.D.	禁用 Prohibition

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26	短链氯化石蜡 (SCCPs) / Alkanes C <sub>10</sub> -C <sub>13</sub> , chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8 and others	100	N.D.	物质或混合物≤10000mg/kg 物品≤1500mg/kg/ Substance or mixture≤10000mg/kg Item≤1500mg/kg
27	全氟辛酸, 其盐类和全氟辛酸相关 化合物/Perfluorooctanoic acid(PFOA), its salts and PFOA-related compound	335-67-1 and others	0.025	N.D.	PFOA 或其任何盐, 物质、 混合物或物品 ≤0.025mg/kg 与 PFOA 相关的任何单个化 合物或与 PFOA 相关的 化合物, 物质、混合物或物 品≤1mg/kg/PFOA or any salt, substance, mixture or item there of ≤0.025mg/kg Any individual compound related to PFOA or PFOA related Compound, substance, mixture or item≤1mg/kg
28	三氯杀螨醇/Dicofol	115-32-2	5	N.D.	禁用 Prohibition
29	全氟己烷磺酸 (PFHxS), 其盐 类和全氟己烷磺酸相关化合物 /Perfluorohexane sulfonic acid (PFHxS), its salts and perfluorohexane sulfonic acid related compounds	355-46-4 and others	---	N.D.	≤ 0.025mg/kg PFHxS 或 其任何盐的浓度小于等于 0.025mg/kg 的物 质、混合物或物品; PFHxS 相关物质浓度总和小于等 于 1 mg/kg 的物质、混合物 或物品/Substances with a concentration of ≤ 0.025mg/kg PFHxS or any of its salts less than or equal to 0.025mg/kg Quality, mixture, or item; Substances, mixtures, or items with a total concentration of PFHxS related substances less than or equal to 1 mg/kg

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30	甲氧滴滴涕/Mcthoxychlor	72-43-5, 30667-99-3, 76733-77-2, 255065-26-0, 59424-81-6, 1348358-72- 4 and others	5	N.D.	物质、混合物或物品中甲氧滴滴涕的浓度 $\leq 0.01\text{mg/kg}$ (0.000001%)/Substances with a concentration of $\leq 0.01\text{mg/kg}$ mcthoxychlor or equal to 0.01mg/kg Quality, mixture, or item;

注意/Remark : \*报告中提及的限值根据是持久性有机污染物(POPs)法规(EU)2019/1021 及其修订指令(EU) 2020/784 & (EU) 2020/1204 & (EU) 2023/1608。 / The Limited value is based on the Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 and its amendments Directive (EU) 2020/784 & (EU) 2020/1204 & (EU) 2023/1608.

## 4.2、提议物质/Propose material

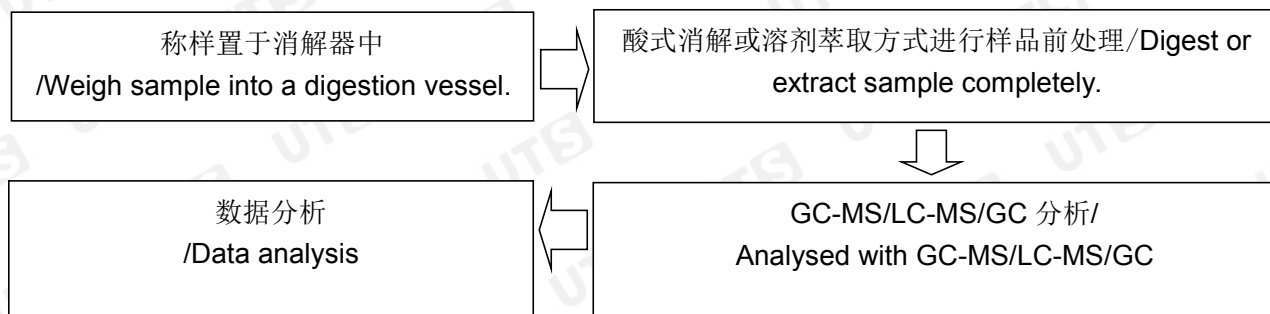
检测项目 Test items	方法检测限 MDL (mg/kg)	检测结果 Results (mg/kg)
得克隆/Dcchloranc Plus	5	N.D.
紫外线吸收剂 UV-328/ UV absorber UV-328	5	N.D.

备注 1) “---” = 未明确规定/Not Regulated.

/Note : 2) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.

检测部位描述/TEST PART DESCRIPTION: 非金属/Non-metal

## 检测流程图/FLOW CHART



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### 5、样品照片/Sample photo(s)



.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.