



# 检测报告 Test Report

报告编号 A2190029046101004E  
Report No. A2190029046101004E

第 1 页 共 5 页  
Page 1 of 5

申请单位 金东纸业(江苏)股份有限公司  
**Applicant** GOLD EAST PAPER(JIANGSU) CO.,LTD  
地 址 镇江市兴港东路 8 号  
**Address** 8 XING GANG EAST ROAD.,DA GANG, ZHENJIANG, JIANGSU,CHINA

以下测试之样品及样品信息由申请者提供并确认  
**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

样品名称 Sample Name 铜版纸 ART PAPER  
样品接收日期 2019.02.20  
Sample Received Date Feb. 20, 2019  
样品检测日期 2019.02.20-2019.02.27  
Testing Period Feb. 20, 2019 to Feb. 27, 2019

## 测试要求

### TEST REQUEST

欧洲玩具安全标准 European Standard on Safety of Toys  
EN71-3:2013+A3:2018 特定元素的迁移  
EN71-3:2013+A3:2018 Migration of certain elements

## 测试结果

### CONCLUSION

符合  
PASS

主 检  
Tested by

葛晓天

审 核  
Reviewed by

徐忠娟

批 准  
Approved by

陈凯敏

日 期  
Date

2019.02.27

实验室经理 Lab Manager

上海华测品标检测技术有限公司  
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R293039767  
上海市浦东新区新金桥路 1996 号  
No. 1996, Xinjinqiao Road, Pudong New District, Shanghai, China

检验检测专用章  
Inspection & Testing Services

# 检测报告

## Test Report

报告编号 A2190029046101004E  
Report No. A2190029046101004E

第 2 页 共 5 页  
Page 2 of 5

### 欧洲玩具安全标准

#### European Standard on Safety of Toys

#### ▼ EN 71-3: 2013+A1:2018 特定元素的迁移

#### ▼ EN 71-3:2013+A1:2018 Migration of certain elements

使用方法 EN 71-3:2013+A1:2018, 通过 ICP-OES, ICP-MS, IC-ICP-MS 和/或 GC-MS 分析。

Method(s) EN 71-3:2013+A1:2018 was/were used, and the item(s) was/were determined by ICP-OES, ICP-MS, IC-ICP-MS and/or GC-MS.

类别III: 玩具中可刮取材料

#### Category III: scraped-off toy material

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
铝 (Al) Aluminium (Al)	N.D.	50	70000
锑 (Sb) Antimony (Sb)	N.D.	5	560
砷 (As) Arsenic (As)	N.D.	5	47
钡 (Ba) Barium (Ba)	N.D.	50	18750
硼 (B) Boron (B)	N.D.	50	15000
镉 (Cd) Cadmium (Cd)	N.D.	1	17
三价铬 (Cr(III)) #1 Chromium (III) #1	--	--	460
六价铬 (Cr(VI)) Chromium (VI)	N.D.	0.005	0.2
钴 (Co) Cobalt (Co)	N.D.	5	130
铜 (Cu) Copper (Cu)	N.D.	50	7700
铅 (Pb) Lead (Pb)	N.D.	5	23
锰 (Mn) Manganese (Mn)	N.D.	50	15000
汞 (Hg) Mercury (Hg)	N.D.	5	94
镍 (Ni) Nickel (Ni)	N.D.	5	930
硒 (Se) Selenium (Se)	N.D.	5	460
锶 (Sr) Strontium (Sr)	N.D.	50	56000
锡 (Sn) #2 Tin (Sn) #2	N.D.	2	180000
有机锡(TBT) #3 Organic tin (TBT) #3	N.D.	1	12
锌 (Zn) Zinc (Zn)	N.D.	50	46000

# 检测报告 Test Report

报告编号 A2190029046101004E  
Report No. A2190029046101004E

第 3 页 共 5 页  
Page 3 of 5

备注:

- N.D. = 未检出 (小于方法检出限)
- mg/kg = ppm = 百万分之一
- 实验室采用滤纸代替滤膜进行测试。
- <sup>#1</sup> 三价铬含量=铬含量-六价铬含量，当铬含量超过六价铬和/或三价铬限值的时候，通过 HPLC-ICP-MS 分析六价铬含量，并通过该公式计算三价铬含量。
- <sup>#2</sup> 为符合 EN71-3:2013+A3:2018 可以通过锡含量来对有机锡进行筛选测试。
- <sup>#3</sup> 有机锡的迁移含量以三丁基锡含量表示。当锡的含量超过有机锡的限值时，通过 GC-MS 分析下表中的十种有机锡，客户应清楚可能有其它的有机锡会存在玩具材料中。

EN71-3:2013+A3:2018 中测试的有机锡
Methyl tin (MeT) 甲基锡
Butyl tin (BuT) 丁基锡
Dibutyl tin (DBT) 二丁基锡
Tributyl tin (TBT) 三丁基锡
Tetrabutyl tin (TeBT) 四丁基锡
n-Octyl tin (MOT) 辛基锡
Di-n-octyl tin (DOT) 二辛基锡
Di-n-propyl tin (DProT) 二丙基锡
Diphenyl tin (DPhT) 二苯基锡
Triphenyl tin (TPhT) 三苯基锡

# 检测报告

## Test Report

报告编号 A2190029046101004E  
Report No. A2190029046101004E

第 4 页 共 5 页  
Page 4 of 5

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Filter paper was used instead of membrane filter in lab testing.
- <sup>#1</sup> Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)) , where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- <sup>#2</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN71-3:2013+A3:2018.
- <sup>#3</sup> The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN71-3:2013+A3:2018
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)

注释：本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

测试样品/部位描述 白色纸  
Tested Sample/Part Description White paper

# 检测报告 Test Report

报告编号 A2190029046101004E  
Report No. A2190029046101004E

第 5 页 共 5 页  
Page 5 of 5

## 样品图片

### Photo(s) of the sample(s)



\*\*\* 报告结束 \*\*\*

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

#### 声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. 样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;

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. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 未经 CTI 书面同意, 不得部分复制本报告。

Without written approval of CTI, this report can't be reproduced except in full;

5. 如检测报告中的英文内容与中文内容有差异, 以中文为准。

In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.