

# Test Report

Report No. SCL01I09566500101

Page 1 of 5

**Applicant** ZHANGZHOU YINMEI PRINTING INK CO., LTD

**Address** DONGCHE VILLAGE , HUOTIAN TOWN, YUNXIAO COUNTY, ZHANGZHOU CITY , FUJIAN PROVINCE, CHINA

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

Sample Name	INK
Part No.	G432
Color	10400
Sample Received Date	Oct. 25, 2016
Testing Period	Oct. 25, 2016 to Oct. 28, 2016

**Test Conducted:**

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

Tested by

*Frank Zhang*

Reviewed by

*Cathy Huang*

Approved by

*Danny Liu*

Date

Oct. 28, 2016

Danny Liu

Technical Manager

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

No. R158921375

# Test Report

Report No. SCL01I09566500101

Page 2 of 5

## Executive Summary:

### TEST REQUEST

European Standard on Safety of Toys

- EN 71-3:2013+A1:2014 Migration of certain elements

### CONCLUSION

**PASS**

\*\*\*\*\* For Further Details, Please Refer To the Following Page(s) \*\*\*\*\*

# Test Report

Report No. SCL01I09566500101

Page 3 of 5

## European Standard on Safety of Toys

### ▼ EN 71-3:2013+A1:2014 Migration of certain elements

Method(s) EN 71-3:2013+A1:2014 was/were used, and the item(s) was/were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and/or GC-MS.

### Category III: scraped-off toy material

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
Aluminium (Al)	N.D.	50	70000
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) <sup>#1</sup>	N.D.	0.2	460
Chromium (VI)	N.D.	0.002	0.2
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	5	160
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) <sup>#2</sup>	N.D.	2	180000
Organic tin (TBT) <sup>#3</sup>	N.D.	0.05	12
Zinc (Zn)	N.D.	50	46000

# Test Report

Report No. SCL01I09566500101

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 EN 71-3:2013+A1:2014.
- <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 EN 71-3:2013+A1:2014
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)

- The test result(s) is(are) presented in reference to the result(s) that reported in SCL01I095665001.

**Tested Sample/Part Description**

White ink

# Test Report

Report No. SCL01I09566500101

Page 5 of 5

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



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

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