

TEST REPORT

APPLICANT : Xindao B.V.

ADDRESS : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

SAMPLE DESCRIPTION : Thin metal stylus pen

ITEM NO. : P610. 62

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 31-Oct-2014

FURTHER INFORMATION DATE : 19-Nov-2014

TURN AROUND TIME : 19-Nov-2014 to 19-Nov-2014, 1 Working Day

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	RESULT
- Total Cadmium Content	Pass
- Based on the document ZEK 01.4-08 issued by the Central Experience Exchange Committee (ZLS-ZEK) – PAHs Content	Pass
- Entry 50 of Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – PAHs Content	Pass

Eurofins (Shanghai) contact information

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Chris Zhang
Technical Manager

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to sh.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.

SAMPLE PHOTO



EFSH14101377-CG

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	White coating on pen
2	Black coating on pen
3	Silvery coating on pen
4	Silvery metal substrate of the pen
5	Silvery metal inside the pen
6	Silvery metal barrel inside the pen
7	Black ink
8	White plastic inside the pen
9	Black plastic on the barrel
10	Black rubber on the top of the penmix

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test method : With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.

Limit : Commission Regulation (EU) No 835/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Cadmium (Cd).

Tested Item(s)	Test Result (%)	M.D.L.(%)	Limit(%)
	1+2+3		
Total Cadmium (Cd)	ND	0.0005	0.1

Tested Item(s)	Test Result (%)				M.D.L.(%)	Limit(%)
	4+5+6	7	8+9	10		
Total Cadmium (Cd)	ND	ND	ND	ND	0.0005	0.01

Note:

M.D.L. = method detection limit

ND = not detected, less than M.D.L.

Remark: According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) (defined in US EPA Method 610, and also Based on the document ZEK 01.4-08)

Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to ZEK 01.4-08

Requirement : ZLS-ZEK 01.4-08 (table 1): Limits for PAH in products. see below:

Parameter	Category 1 Materials intended to be put in the mouth, or toys for children<36 months	Category 2 Materials with foreseeable contact to skin for longer than 30 seconds (long-term skin contact) and toys not covered by category 1	Category 3 Materials with foreseeable contact to skin up to 30 seconds (short-term skin contact) or without skin contact	
Benzo(a)pyrene(mg/kg)	<0.2	1	20	
Sum 18 PAHs(mg/kg)	<0.2	10	200	
Parameter	CAS No.	Unit	Result	
			8+9	10
Group PAHs	--	mg/kg	0.431	2.92
Acenaphthene	83-32-9	mg/kg	ND	ND
Acenaphthylene	208-96-8	mg/kg	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND
Fluoranthene	206-44-0	mg/kg	ND	ND
Fluorene	86-73-7	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	0.431	2.35
Phenanthrene	1985-1-8	mg/kg	ND	0.571
Pyrene	129-00-0	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Summary to above mentioned requirement:	For Category 2 skin contact more than 30 sec		Pass	Pass

Note:

mg/kg = milligram per kilogram

ND=not detected, less than 0.2 mg/kg

Remark: According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Requested : To determine the Polycyclic Aromatic Hydrocarbons (PAHs) content of the submitted sample in accordance with Entry 50 of Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method : With reference to ISO 18287:2006, Analysis was performed by GC/MS.

Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	8+9	10		
Benzo(a)anthracene	ND	ND	0.1	1
Chrysene	ND	ND	0.1	1
Benzo(b)fluoranthene	ND	ND	0.2	1
Benzo(j)fluoranthene				
Benzo(k)fluoranthene	ND	ND	0.1	1
Benzo(a)pyrene	ND	ND	0.1	1
Dibenzo(a,h)anthracene	ND	ND	0.1	1
Benzo(e)pyrene	ND	ND	0.1	1

Note:

M.D.L. = method detection limit

ND = Not detected, less than detection limit

Remark: According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

*** END OF THE REPORT ***