

**YTII****中华人民共和国扬州进出口玩具检验所**

YANGZHOU IMP. &amp; EXP. TOY INSPECTION INSTITUTE OF P.R.C.

ORIGINAL

## TEST REPORT

No. :3210/FB170073

Date :May.31,2020

Applicant : COS - Complete Office Supplies  
Address : 25, NYRANG STREET, LIDCOMBE, NSW, AUSTRALIA, 2141  
Sample Name : HB Pencil Lead  
(Photo Appendix is Included)  
Sample Description : Black Pencil Lead  
Item No. : HB  
Place of Origin : Pingdu, China  
Sample Received : Twenty grams; May.24,2020  
Testing Period : May.26-27,2020

Test Requested

Result

1.For compliance with the European Standard on Safety of Toys

EN71-3: 2013+A1:2014 Migration of certain elements

Pass

2. EN71 Part 9:2005+A1:2007 –Organic Chemical Compounds

See Result on Page 3

Requirements

- To determine Colourants in the submitted material
- To determine Primary aromatic amines in the submitted material

\*\*\*\*\*For Further Details, Please Refer to the following Page(s)\*\*\*\*\*

Signed for and on behalf of YTII

  
Cheng Yu Long  
Technologist

Page: 1 of 3



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### Results 1:

European Standard on Safety of Toys

#### - Migration of Certain Elements

Method: EN71-3:2013+A1:2014 Migration of certain elements

Analysis was performed by ICP-OES/IC-ICP-MS/GC-MS

#### Specimen Description:

Category I: Dry, Brittle, Powder-like or Pliable toy material

Group 01: Black pencil lead

Specimen		01	Limit
Soluble Aluminum	(Al)	<50	5625mg/kg
Soluble Arsenic	(As)	<0.5	3.8mg/kg
Soluble Boron	(B)	<50	1200mg/kg
Soluble Barium	(Ba)	<50	4500mg/kg
Soluble Cadmium	(Cd)	<0.5	1.3mg/kg
Soluble Cobalt	(Co)	<1	10.5mg/kg
Soluble Chromium(III)	(Cr(III))	<1	37.5mg/kg
Soluble Chromium(VI)	(Cr(VI))	<0.01	0.02mg/kg
Soluble Copper	(Cu)	<50	622.5mg/kg
Soluble Mercury	(Hg)	<0.5	7.5mg/kg
Soluble Manganese	(Mn)	<50	1200mg/kg
Soluble Nickel	(Ni)	<1	75mg/kg
Soluble Lead	(Pb)	<1	13.5mg/kg
Soluble Antimony	(Sb)	<1	45mg/kg
Soluble Selenium	(Se)	<1	37.5mg/kg
Soluble Tin	(Sn)	<0.4	15000mg/kg
Soluble Strontium	(Sr)	<50	4500mg/kg
Soluble Zinc	(Zn)	<50	3750mg/kg
Soluble Organic Tin	--	<0.2	0.9mg/kg

- Test results of chromium(VI) was derived from migration results of total chromium.

- Abbreviation: < = Less than; mg/kg = milligram per kilogram



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Results 2:

**Specimen Description:**

Group 01: Black pencil lead

**-Colourants**

Test Items	CAS Number	Unit	DL	No.01
Disperse Blue 1	2475-45-8	mg/kg	10	ND
Disperse blue 3	2475-46-9	mg/kg	10	ND
Disperse blue 106	12223-01-7	mg/kg	10	ND
Disperse blue 124	61951-51-7	mg/kg	10	ND
Disperse Yellow 3	2832-40-8	mg/kg	10	ND
Disperse Orange 3	730-40-5	mg/kg	10	ND
Disperse Orange 37/76	12223-33-5 13301-61-6	mg/kg	10	ND
Disperse Red 1	2872-52-8	mg/kg	10	ND
Solvent Yellow 1	60-09-3	mg/kg	10	ND
Solvent Yellow 2	60-11-7	mg/kg	10	ND
Solvent Yellow 3	97-56-3	mg/kg	10	ND
Basic Red 9	569-61-9	mg/kg	10	ND
Basic Violet 1	8004-87-3	mg/kg	10	ND
Basic Violet 3	548-62-9	mg/kg	10	ND
Acid Red 26	3761-53-3	mg/kg	10	ND
Acid Violet 49	1694-09-3	mg/kg	10	ND

Note: ND=Not Detected, which denotes <10mg/kg, DL=Detected Limited  
Test was determined by LC.

**-Primary aromatic amines**

Test Items	CAS Number	Unit	DL	No.01
Benzidine	92-87-5	mg/kg	5	ND
2-Naphthylamine	91-59-8	mg/kg	5	ND
4-Chloroaniline	106-47-8	mg/kg	5	ND
3,3-Dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3-Dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3-Dimethylbenzidine	119-93-7	mg/kg	5	ND
o-Toluidine	95-53-4	mg/kg	5	ND
2-Methoxyaniline(o-Anisidine)	90-04-0	mg/kg	5	ND
Aniline	62-53-3	mg/kg	5	ND

Note: ND=Not Detected, which denotes <5mg/kg, DL=Detected Limited  
Test was determined by GC-MS.

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

Page: 3 of 3



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## APPENDIX

No :3210/FB170073

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YTII authenticates the photo on ORIGINAL report only.

