



TEST REPORT

Test Report # 18A-004780-2 Date of Report Issue: November 27, 2018
Date of Sample Received: October 24, 2018 Pages: Page 1 of 10

CLIENT INFORMATION:

Company:

Address:



SAMPLE INFORMATION:

Product Name: Hydrate leak proof lockable Steel bottle
Model/style No.: P432.63
Main Material: -
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 10/24/2018-11/26/2018

OVERALL RESULT:

PASS

Refer to page 2 for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION
TESTING TECHNOLOGY CO., LTD

Kevin Lee

Kevin Lee
Technical Manager

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158
♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China 检验检测专用章

The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Client's requirement, Bisphenol A content
PASS	German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No 1935/2004 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 , its amendment (EU) 2016/1416 and Res AP(2004)5- Overall migration



**DETAILED RESULTS:****Client's requirement, Bisphenol A content**

Test method: Refer to US EPA 3550C:2007 & US EPA 8270D:2014

Analytical Method: Gas Chromatography-Mass Spectrometer

Sample No.:	1	---	---	---	---	Client's limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	ND	---	---	---	---	Not Detected
Conclusion	PASS	---	---	---	---	

Note:

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1mg/kg)



**DETAILED RESULTS:****German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Category 1: Materials, that are intended to be put in the mouth, or materials in toys with Intended and prolonged skin-Contact (Longer than 30 Seconds)

Specimen No.	6	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Benzo (a) pyrene	50-32-8	ND	---	---	0.2
Benzo (e) pyrene	192-97-2	ND	---	---	0.2
Benzo (a) anthracene	56-55-3	ND	---	---	0.2
Benzo (b) fluoranthene	205-99-2	ND	---	---	0.2
Benzo (j) fluoranthene	205-82-3	ND	---	---	0.2
Benzo (k) fluoranthene	207-08-9	ND	---	---	0.2
Chrysene	218-01-9	ND	---	---	0.2
Dibenzo (a,h) anthracene	53-70-3	ND	---	---	0.2
Benzo (g,h,i) perylene	191-24-2	ND	---	---	0.2
Indeno (1,2,3-cd) pyrene	193-39-5	ND	---	---	0.2
Acenaphthylene	208-96-8	ND	---	---	
Acenaphthene	83-32-9	ND	---	---	
Fluorene	86-73-7	ND	---	---	
Phenanthrene	85-01-8	0.2	---	---	
Pyrene	129-00-0	ND	---	---	
Anthracene	120-12-7	ND	---	---	
Fluoranthene	206-44-0	ND	---	---	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene		0.2	---	---	1
Naphthalene	91-20-3	0.5	---	---	1
Sum of 18 PAH		0.7	---	---	1
Conclusion		PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

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**DETAILED RESULTS:****Regulation (EC) No 1935/2004 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals**

Test method: Sample preparation in Artificial tap water at 70°C for 24 hours

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry / Inductively Coupled Plasma-Mass Spectrometry

Specimen No:	2					
Test Item(s)	Unit	MDL	1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.1	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.01	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Magnesium(Mg)	mg/kg	0.1	ND	---	ND	---
Manganese (Mn)	mg/kg	0.5	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.05	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.05	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.05	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Titanium(Ti)	mg/kg	0.1	ND	---	ND	---
Vanadium (V)	mg/kg	0.005	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.001	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.005	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.005	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001
Conclusion	PASS					

Note:

(1) mg/kg =milligram per kilogram

(2) SRL = Specific Release Limit

(3) *1 Compliance is established on the result from the third migration test for repeated used articles.

(4) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL

(5) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test**

Test Method: DIN 10955: 2004

Test condition: 70°C, 2 hours

Test media: Distilled water

No. of panelist: 6

Specimen No.	5	---	---	---	Max.Permissible
Test Item	Result	Result	Result	Result	Limit
Sensorial examination odour (Point scale)	0	---	---	---	2.5
Sensorial examination taste (Point scale)	0	---	---	---	2.5
Conclusion	PASS	---	---	---	

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 , its amendment (EU) 2016/1416 and Res AP(2004)5-
Overall migration**

Test method: EN1186-1:2002: for selection of conditions and test methods
EN1186-3:2002: aqueous food simulants by total immersion

Specimen No.		3	4	---	Maximum permissible Limit (mg/dm ²)
Simulant used	Test condition	Result (mg/dm ²)	Result (mg/dm ²)	Result (mg/dm ²)	
10% ethanol	2 hours at 70°C	ND	ND	---	10
3% acetic acid	2 hours at 70°C	ND	ND	---	10
Conclusion		PASS	PASS	---	

Note:

mg/dm² = milligram per square decimeter

ND = Not Detected (Reporting limit = 3 mg/dm²)



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black coating	Shell(hydrate leak proof lockable steel bottle)
2	Silvery metal	Interior of black style(hydrate leak proof lockable steel bottle)
3	Grey plastic	Lid of black style(hydrate leak proof lockable steel bottle)
4	Translucent plastic	Sealing ring of black style(hydrate leak proof lockable steel bottle)
5	Hydrate leak proof lockable steel bottle	Finished product
6	Black coating	Shell(hydrate leak proof lockable steel bottle)





SAMPLE PHOTO:



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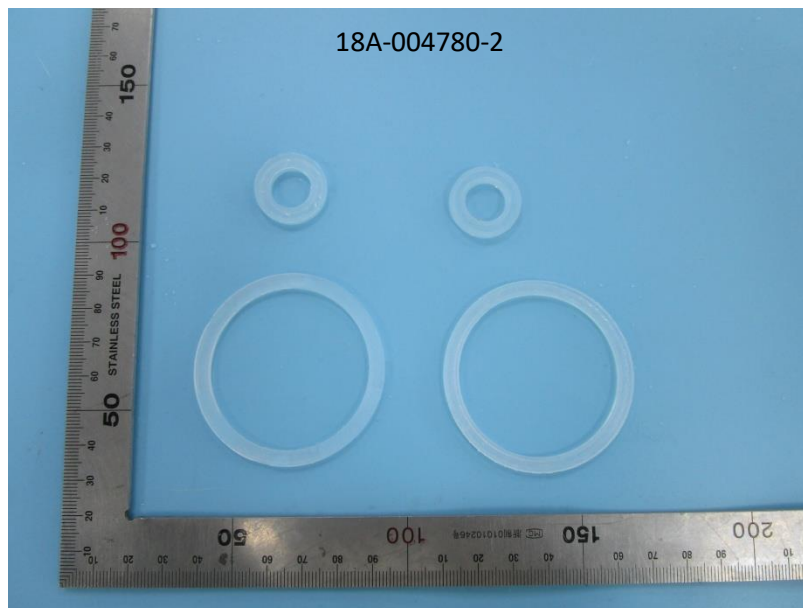
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-End Report-

