



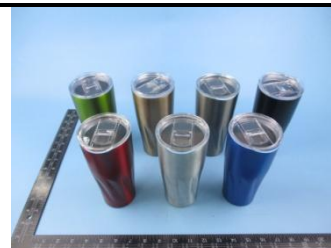
TEST REPORT

Test Report # 17A-002190-E
Date of Sample Received: July 13, 2017

Date of Report Issue: August 8, 2017
Pages: Page 1 of 16

CLIENT INFORMATION:

Company:
Address:



SAMPLE INFORMATION:

Product Name: 500ML COPPER VACUUM INSULATED TUMBLER
Model/style No.: P432.86x
Main Material: stainless steel
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 07/13/2017-07/20/2017,08/01/2017-08/08/2017

OVERALL RESULT:

PASS

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

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

Test Report # 17A-002190-E Date of Report Issue: August 8, 2017
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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, BPA content
PASS	German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Selected tests for the suitability for contact with foodstuffs in accordance with German § 30 and § 31 LFGB with amendments, BfR Recommendation, Specific migration of acrylonitrile
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Sensorial examination odour and taste test
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific release of heavy metals
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Overall migration
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific migration of heavy metals
PASS	Okeo-tex standard 100 (2015)- Total Lead and Total Cadmium content
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Volatile Organic Matter
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Peroxide Value
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Extractable Components



**DETAILED RESULTS:****Client's requirement, BPA content**

Test method: AI|Hangzhou method

Analytical Method: Gas Chromatography-Mass Spectrometer

Sample No.:		2	3	4	-	-	Client's limit (mg/kg)
Test Item	Detection Limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
BPA	0.1	ND	ND	ND	-	-	Not Detected
Conclusion		PASS	PASS	PASS	-	-	

Note:

mg/kg=milligram per kilogram

ND=Not Detected(<Detection Limit)



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

Test Method: AfPS GS 2014:01 PAHs

Analytical Method: Gas Chromatography with Mass Spectrometry

Category 1: Materials Intended to be Put in the Mouth, or Materials of Toys with Intended Long Term Skin Contact (Longer than 30 Seconds)

Specimen No.		2	3	4	-	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	ND	ND	-	0.2
Benzo (e) pyrene	192-97-2	ND	ND	ND	-	0.2
Benzo (a) anthracene	56-55-3	ND	ND	ND	-	0.2
Benzo (b) fluoranthene	205-99-2	ND	ND	ND	-	0.2
Benzo (j) fluoranthene	205-82-3	ND	ND	ND	-	0.2
Benzo (k) fluoranthene	207-08-9	ND	ND	ND	-	0.2
Chrysene	218-01-9	ND	ND	ND	-	0.2
Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	-	0.2
Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	-	0.2
Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	-	0.2
Acenaphthylene	208-96-8	ND	ND	ND	-	
Acenaphthene	83-32-9	ND	ND	ND	-	
Fluorene	86-73-7	ND	ND	ND	-	
Phenanthrene	85-01-8	ND	ND	ND	-	
Pyrene	129-00-0	ND	ND	ND	-	
Anthracene	120-12-7	ND	ND	ND	-	
Fluoranthene	206-44-0	ND	ND	ND	-	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene		ND	ND	ND	-	1
Naphthalene	91-20-3	0.5	ND	ND	-	1
Sum of 18 PAH		0.5	ND	ND	-	1
Conclusion		PASS	PASS	PASS	-	

Note:

mg/kg = Milligrams per kilogram

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



**DETAILED RESULTS:**

Selected tests for the suitability for contact with foodstuffs in accordance with German § 30 and § 31 LFGB with amendments, BfR Recommendation, Specific migration of acrylonitrile

Test method: EN 13130-1:2004 & EN 13130-3:2004

Requirement: COMMISSION REGULATION (EU) No 10/2011 and its amendments

Sample No.: 2					
Parameter	Test condition	Unit	Maximum permissible Limit	Detection Limit	Result
acrylonitrile	In 3% acetic acid at 70°C for 2hours	mg/kg	Not Detectable	0.01	ND
Conclusion	-				PASS

Note

mg/kg=milligram per kilogram

ND=Not Detected(<Detection Limit)

The test is carried out by external laboratory assessed as competent



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -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.	1	-	-	-	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:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific release of heavy metals**

Test method: Sample preparation in 0.5%(5g/L) citric acid at 70°C for 2hours, followed by analysis using ICP-OES&ICP-MS

Requirement: Council of Europe Resolution CM/Res(2013)9 on metals and alloys used in food contact materials and articles

Specimen No:	1					
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)

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**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - 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.		2	3	-	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
Conclusion		PASS	PASS	-	

Note:

mg/dm² = milligram per square decimeter

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

The overall migration value is expressed in mg/dm² applying the total contact surface of sealing article and sealed container



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -Specific migration of heavy metals**

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours, followed by analysis Inductively Coupled Plasma Optical Emission

Specimen No.		2	3	-	-	Maximum permissible Limit (mg/kg)
Test Item	Detection limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Barium	0.1	ND	ND	-	-	1
Cobalt	0.05	ND	ND	-	-	0.05
Copper	0.5	ND	ND	-	-	5
Iron	1.0	ND	ND	-	-	48
Lithium	0.1	ND	ND	-	-	0.6
Manganese	0.1	ND	ND	-	-	0.6
Zinc	1.0	ND	ND	-	-	5
Conclusion		PASS	PASS	-	-	

Note:

mg/kg=milligram per kilogram

ND= Not Detected

The specific migration values use the actual content of the container for which the closure is intended

Container volume: 550mL



**DETAILED RESULTS:****Okeo-tex standard 100 (2015) - Total Lead and Total Cadmium content**

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3	4	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	-	-	90
Total Cadmium (Cd)	ND	ND	ND	-	-	40
Conclusion	PASS	PASS	PASS	-	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Remark

The Lead content requirement of OEKO-TEX standard 100 (2015):

Product class Parameter	I : baby	II : in direct contact with skin	III: with no direct contact with skin	IV: decoration material
Lead (Pb) (mg/kg)	90	90 ¹	90 ¹	90 ¹
Cadmium (Cd) (mg/kg)	40	40 ¹	40 ¹	40 ¹



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Volatile Organic Matter**

Analysis performed by gravimetric method to determine compliance with the above referenced regulation.
[Referenced Test Method: Bundesgesundheitsbl. 22 (1979) P339[#]]

Specimen No.	2	4	-	-	Limit (%w/w)
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Volatile Organic Matter	0.04	ND	-	-	0.5
Conclusion	PASS	PASS	-	-	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.01%)



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Peroxide Value**

Analysis performed by titration method to determine compliance with the above referenced Regulation.
[Referenced Test Method: European Pharmacopoeia 5.0 Section 3.1.9[#]]

Specimen No.	4	-	-	-	-	Limit
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Peroxide Value	ND	-	-	-	-	Absent
Conclusion	PASS	-	-	-	-	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.01%)



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Extractable Components**

Analysis performed by food simulating solvents extractions to determine compliance with the above referenced regulation. [Referenced Test Method: 61st Communication on testing of plastics in Bundesgesundheitsblatt 46 (2003) 362[#]]

Specimen No.			4	-	-	Limit (% w/w)
Test Simulant	Test Condition		Result (% w/w)	Result (% w/w)	Result (% w/w)	
	Temperature	Duration				
10% Ethanol	Reflux	5 hours	0.15	-	-	0.5
Conclusion			PASS	-	-	

Note:

°C = Degree Celsius

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.1 %)



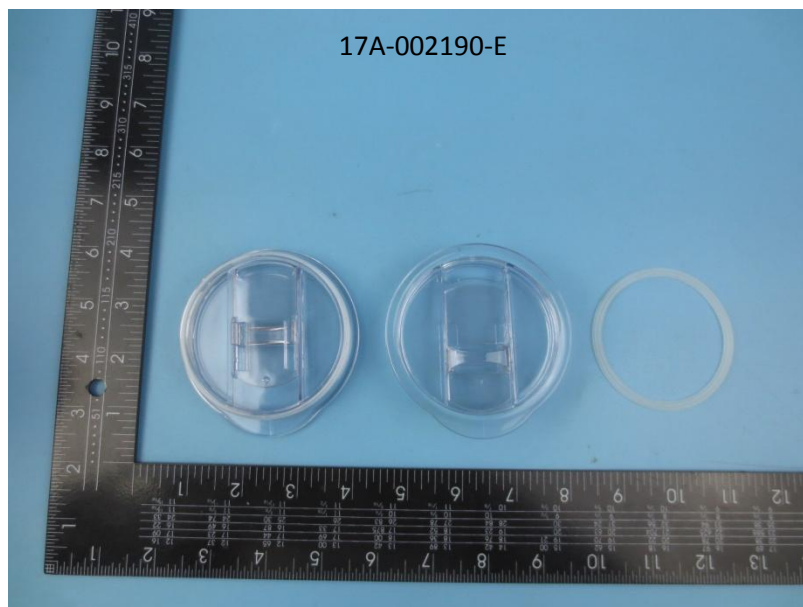
**SPECIMEN DESCRIPTION:**

Sample No.	Specimen Description	Location
1	Stainless steel	Body
2	Transparent AS	Lid
3	Transparent tritan	Lid pushing
4	White silicone	Sealing ring



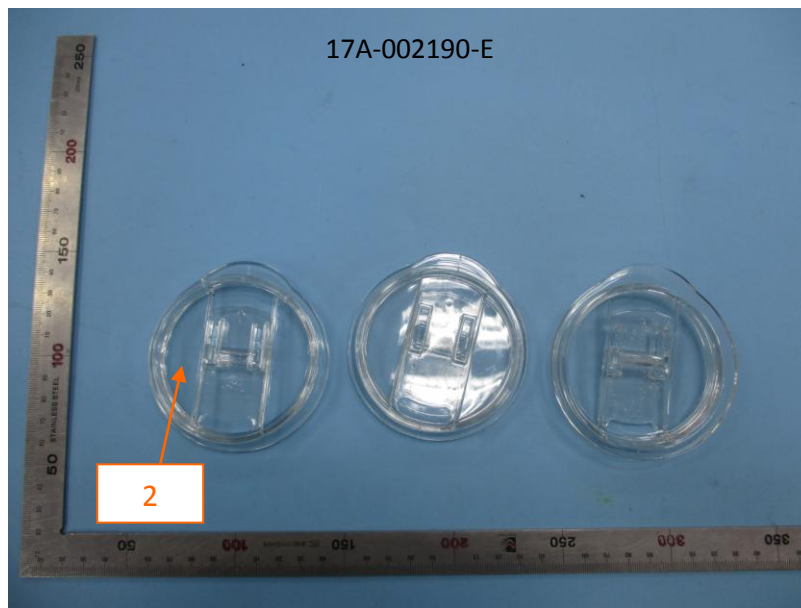


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