

Test reports for Forge Flow VSS and Fit Cap VSS for LEEDS



The undersigned, representing the following supplier

CamelBak Products, LLC

2000 South McDowell Blvd, Suite 200
Petaluma, CA 94954, USA

Declare, under our sole responsibility, that the following US/Canada compliance testing requirements

<i>Regulation ID</i>	<i>Description</i>
US FDA 21 CFR Part 177	Food contact materials and articles (indirect additives)

for the following products:

CamelBak® Forge Flow™ vacuum stainless steel bottles, in the following configurations (product of China):

- Leeds #1627-47BK, CB SKU 2956001050, Forge Flow, SST Vacuum Insulated, 16oz, Black, Leeds SMU

CamelBak® Fit Cap™ vacuum stainless steel bottles, in the following configurations (product of China):

- Leeds #1627-48BK, CB SKU 2955001101, Fit Cap, SST Vacuum Insulated, 32oz, Black, Leeds SMU

are satisfied by the attached test report(s), summarized as follows:

Lab	report ID	report date	pages	Tested Item	Requirement
SGS Qingdao	QDHL2304005630CW	5/11/2023	8	Plastic parts in Fit Cap and Forge Flow	FDA 21 CFR plastics in food contact; Canada lead in plastic parts; BPA in plastic parts
SGS Qingdao	QDHL2204003456CW	5/20/2022	9	12 powdercoat colors	Canada lead in coatings; EN 71-3 heavy metals in coatings

The technical construction file and supplemental information required by the regulation is maintained at the corporate headquarters of:

CamelBak Products, LLC at 2000 South McDowell Blvd, Suite 200, Petaluma, CA 94954 USA

The authorized representative located within the European Community is:

CamelBak Products, LLC, River House, St. Mary's Road, Newcastle West, Ireland

**Test reports for Forge Flow VSS and Fit Cap
VSS for LEEDS**



I, the undersigned, hereby declare that the products specified above conform to the listed directives and standards.

Name: Mitch Gordon

Signature: *Mitch Gordon*

Company Title: Regulatory Manager

Date: Oct. 23, 2023

SINOGLASS HOUSEWARES CO.,LTD.
26TH FLOOR,EAST TOWER,TRIUMPH PLAZA,43 DONG HAI XI ROAD,QINGDAO,P.R.CHINA 266071

Sample Description : MISC FORGE FLOW AND FIT CAP PARTS, FC+NON-FC
Buyer : CAMELBAK PRODUCTS LLC

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : TAOHG2302961601 / TAOHG2302960401
Sample Receiving Date : Apr 28, 2023
Final Information Date : May 11, 2023
Test Performing Date : Apr 28, 2023 to May 11, 2023

Test Requested	Test Result
1. Canada Consumer Product Safety Act(S.C. 2010, c. 21) , Consumer Products Containing Lead Regulations (SOR/2018-83, CPCLR)–Total Lead (Non-Metal)	Pass
2. Bisphenol-A	Pass
3. US FDA 21 CFR 177.2600- Total extractives	Pass
4. US FDA 21 CFR 177.1520- Extractable fraction	Pass
5. US FDA 21 CFR 177.1520- Soluble fraction in Xylene	Pass
6. US FDA 21 CFR 177.1520- Density at 23°C	See Results

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.




Zhou Xinkuan, SK
Authorized Signatory



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Appendix:

No.	Part ID.	Part Description	Material	SGS Sample ID	SGS Description
001	106422001	cap body, Forge Flow, Black	PP copolymer	TAO23-029604.001 TAO23-029616.001	Black plastic lid (106422001)
002	107411001	main cap, Fit Cap, Black/Black	PP copolymer	TAO23-029604.002 TAO23-029616.002	Black plastic lid (107411001)
003	104411001	gasket, main cap, Chute Mag, Dk.Grey (RAL7012)	silicone	TAO23-029604.003 TAO23-029616.003	Grey silicone rubber ring
004	106426001	vessel gasket, Forge Flow, Black	silicone	TAO23-029604.004 TAO23-029616.004	Black silicone rubber ring
005	106425001	seal bar, Forge Flow, Black	PP copolymer+ glass fill	TAO23-029604.005 TAO23-029616.005	Black plastic lid (106425001)
006	105961001	Base Pad, 16oz, Forge Flow, Black	silicone	TAO23-029616.006	Black silicone rubber pad
007	106429001	snap fit slider, Forge Flow, Black	PP copolymer	TAO23-029616.007	Black plastic slider
008	107414001	handle, Fit Cap, Black	PP copolymer	TAO23-029616.008	Black plastic handle
009	106428001	trigger button, Forge Flow, Black	PP copolymer	TAO23-029616.009	Black plastic button
010	106427001	trigger guard, Forge Flow, Black	acetal	TAO23-029616.010	Black plastic ring

Test Result(s):

1. Canada Consumer Product Safety Act(S.C. 2010, c. 21) , Consumer Products Containing Lead Regulations (SOR/2018-83, CPCLR)–Total Lead (Non-Metal)

Test Method : Samples were prepared with reference to Health Canada, Product Safety Laboratory, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.3. analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL
Total Lead (Pb)	0.009	%	0.002

Test Item(s)	No.001	No.002	No.003	No.004	No.005
Total Lead (Pb)	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	No.006	No.007	No.008	No.009	No.010
Total Lead (Pb)	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

2. Bisphenol-A

Test Method : In house method, analysis was conducted by HPLC-MS.

Test Item(s)	Limit	Unit	MDL
Bisphenol-A	0.1	mg/kg	0.1

Test Item(s)	No. 001	No.002	No.003	No.004	No.005
Bisphenol-A	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS

Test Item(s)	No.006	No.007	No.008	No.009	No.010
Bisphenol-A	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS

Notes :

- (1) The maximum permissible limit is quoted from the client's requirement.

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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3. US FDA 21 CFR 177.2600- Total extractives

Test Method : With reference to US FDA 21 CFR 177.2600.

Simulant Used	Time	Temperature	Max. Permissible Limit	No. 003 Total Extractives	No. 004 Total Extractives	Conclusion
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	<0.5mg/inch ²	PASS
Distilled water Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	<0.5mg/inch ²	PASS
n-Hexane	7.0hr(s)	Reflux temperature	175mg/inch ²	9.9mg/inch ²	6.9mg/inch ²	PASS
n-Hexane Succeeding Extraction	2.0hr(s)	Reflux temperature	4mg/inch ²	<0.5mg/inch ²	<0.5mg/inch ²	PASS

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

4. US FDA 21 CFR 177.1520- Extractable fraction

Test Method : With reference to US FDA 21 CFR 177.1520 (d)(3)(ii).

Simulant Used	Time	Temperature	Max. Permissible Limit
n-Hexane	2hr(s)	50°C	5.5% (w/w)

Simulant Used	No.001	No.002	No.005
n-Hexane	<0.5% (w/w)	<0.5% (w/w)	0.7% (w/w)
Conclusion	PASS	PASS	PASS



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Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

5. US FDA 21 CFR 177.1520- Soluble fraction in Xylene

Test Method : With reference to US FDA 21 CFR 177.1520(d)(4)(ii).

Test Item(s)	Limit	Unit	MDL
Soluble fraction in Xylene	30	% (w/w)	0.5

Test Item(s)	No.001	No.002	No.005
Soluble fraction in Xylene	8.2	23.0	3.8
Conclusion	PASS	PASS	PASS

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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6. US FDA 21 CFR 177.1520- Density at 23°C

Test Method : With reference to US FDA 21 CFR 177.1520 d (1).

Test Item(s)	Limit	No.001	No.002	No.005
Density at 23°C, g/ cm ³	0.85-1.00	0.90	0.89	1.16
Conclusion	-	Pass	Pass	-

Remarks :

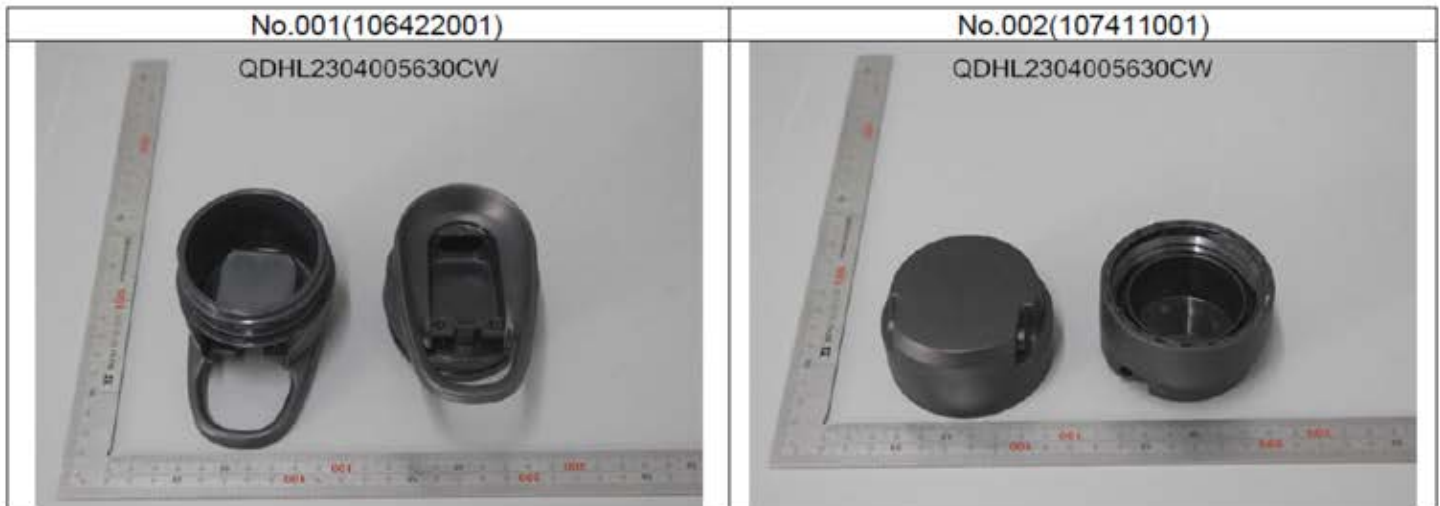
- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Notes :

The FDA tests are intended for the raw/virgin polymer material. Since this was not available, the finished article was tested, and this testing included the polymer and all the other substances that were added during the manufacturing process. It is recommended that the physical parameters be tested on the raw/virgin polymer material.

Remark: Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

Sample Photo:



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End of Report



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SINOGLASS HOUSEWARES CO.,LTD.
26TH FLOOR,EAST TOWER,TRIUMPH PLAZA,43 DONG HAI XI ROAD,QINGDAO,P.R.CHINA 266071

Sample Description : STAINLESS VESSELS POWDERCOAT
Buyer : CAMELBAK PRODUCTS LLC
Manufacturer : SINOGLASS HOUSEWARES CO.,LTD
Supplier : SINOGLASS HOUSEWARES CO.,LTD
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : TAOHG2201868901
Sample Receiving Date : Apr 07, 2022
Final Information Date : Apr 19, 2022
Test Performing Date : Apr 07, 2022 to Apr 20, 2022

<u>Test Requested</u>	<u>Test Result</u>
1. EN 71-3:2019+A1:2021,as specified by clients– Migration of certain elements(Category III:for scrapped-off toy material)	Pass
2. Canada Consumer Product Safety Act(S.C. 2010, c. 21) , Surface Coating Materials Regulations (SOR/2016-193),as specified by clients- Total Lead and Mercury in surface coating materials	Pass

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.



Zhou Xinkuan, SK
Authorized Signatory



Appendix:

No.	Part No.	Material	SGS Sample ID	SGS Description
1	- PC-Black	powdercoat, dried, Black	TAO22-018689.001	Black coating on metal
2	- PC-Coastal	powdercoat, dried, Coastal	TAO22-018689.002	Cyan coating on metal
3	- PC-Lagoon	powdercoat, dried, Lagoon	TAO22-018689.003	Dark cyan coating on metal
4	- PC-Dune	powdercoat, dried, Dune	TAO22-018689.004	Brown coating on metal
5	- PC-Larkspur	powdercoat, dried, Larkspur	TAO22-018689.005	Blue coating on metal
6	- PC-Magenta	powdercoat, dried, Magenta	TAO22-018689.006	Purple coating on metal
7	- PC-Moss	powdercoat, dried, Moss	TAO22-018689.007	Dark green coating on metal
8	- PC-Mint	powdercoat, dried, Mint	TAO22-018689.008	Light green coating on metal
9	- PC-Navy	powdercoat, dried, Navy	TAO22-018689.009	Navy blue coating on metal
10	- PC-TerracottaRose	powdercoat, dried, Terracotta Rose	TAO22-018689.010	Terracotta coating on metal
11	- PC-CamelliaPink	powdercoat, dried, Camellia Pink	TAO22-018689.011	Pink coating on metal
12	- PC-White	powdercoat, dried, White	TAO22-018689.012	White coating on metal



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Test Results:

1. EN 71 3:2019+A1:2021,as specified by clients– Migration of certain elements (Category III:for scrapped off toy material)

Test Method : With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV. Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit	MDL
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025
Soluble Lead (Pb)	23	mg/kg	5
Soluble Antimony (Sb)	560	mg/kg	10
Soluble Arsenic (As)	47	mg/kg	10
Soluble Barium (Ba)	18750	mg/kg	50
Soluble Cadmium (Cd)	17	mg/kg	5
Soluble Chromium (III) (Cr III)	460	mg/kg	5
Soluble Mercury (Hg)	94	mg/kg	10
Soluble Selenium (Se)	460	mg/kg	10
Soluble Boron (B)	15000	mg/kg	50
Soluble Cobalt (Co)	130	mg/kg	10
Soluble Manganese (Mn)	15000	mg/kg	50
Soluble Strontium (Sr)	56000	mg/kg	50
Soluble Zinc (Zn)	46000	mg/kg	50
Soluble Copper (Cu)	7700	mg/kg	50
Soluble Aluminum (Al)	28130	mg/kg	50
Soluble Nickel (Ni)	930	mg/kg	10
Soluble Tin (Sn)	180000	mg/kg	3
Soluble Organic Tin*	12	mg/kg	-
Methyl tin (MeT)	-	mg/kg	0.5
Di-n-propyl tin (DProT)	-	mg/kg	0.5
Dibutyl tin (DBT)	-	mg/kg	0.5
Tributyl tin (TBT)	-	mg/kg	0.5
n-Octyl tin (MOT)	-	mg/kg	0.5
Tetrabutyl tin (TeBT)	-	mg/kg	0.5
Diphenyl tin (DPHT)	-	mg/kg	0.5
Di-n-octyl tin (DOT)	-	mg/kg	0.5
Triphenyl tin (TPHT)	-	mg/kg	0.5
Butyl tin(BuT)	-	mg/kg	0.5
Di-methyl tin(DMT)	-	mg/kg	0.5
Sum of Soluble Organic Tin	12	mg/kg	-



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Test Item(s)	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Soluble Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	ND
Soluble Lead (Pb)	ND	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	ND
Soluble Arsenic (As)	ND	ND	ND	ND	ND	ND
Soluble Barium (Ba)	229	379	333	330	401	318
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Soluble Chromium (III) (Cr III)	7	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	ND
Soluble Selenium (Se)	ND	ND	ND	ND	ND	ND
Soluble Boron (B)	ND	ND	ND	ND	ND	ND
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	ND
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	ND
Soluble Strontium (Sr)	ND	124	108	92	68	125
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	ND
Soluble Copper (Cu)	ND	ND	ND	ND	ND	ND
Soluble Aluminum (Al)	223	311	251	723	335	315
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	ND
Soluble Tin (Sn)	ND	ND	ND	ND	5	ND
Soluble Organic Tin*	ND	ND	ND	ND	-	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS
Methyl tin (MeT)	-	-	-	-	ND	-
Di-n-propyl tin (DProT)	-	-	-	-	ND	-
Dibutyl tin (DBT)	-	-	-	-	ND	-
Tributyl tin (TBT)	-	-	-	-	ND	-
n-Octyl tin (MOT)	-	-	-	-	ND	-
Tetrabutyl tin (TeBT)	-	-	-	-	ND	-
Diphenyl tin (DPHT)	-	-	-	-	ND	-
Di-n-octyl tin (DOT)	-	-	-	-	ND	-
Triphenyl tin (TPHT)	-	-	-	-	ND	-
Butyl tin(BuT)	-	-	-	-	1.4	-
Di-methyl tin(DMT)	-	-	-	-	ND	-
Sum of Soluble Organic Tin	-	-	-	-	1.4	-
Conclusion					PASS	



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Test Item(s)	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
Soluble Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	ND
Soluble Lead (Pb)	ND	5	ND	ND	ND	ND
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	ND
Soluble Arsenic (As)	ND	ND	ND	ND	ND	ND
Soluble Barium (Ba)	346	358	348	357	391	337
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Soluble Chromium (III) (Cr III)	ND	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	ND
Soluble Selenium (Se)	ND	ND	ND	ND	ND	ND
Soluble Boron (B)	ND	ND	ND	ND	ND	ND
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	ND
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	ND
Soluble Strontium (Sr)	89	104	141	61	97	83
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	ND
Soluble Copper (Cu)	ND	ND	ND	ND	ND	ND
Soluble Aluminum (Al)	553	435	70	317	481	722
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	ND
Soluble Tin (Sn)	ND	ND	ND	ND	ND	ND
Soluble Organic Tin*	ND	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS

Notes :

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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2. Canada Consumer Product Safety Act(S.C. 2010, c. 21) , Surface Coating Materials Regulations (SOR/2016 193),as specified by clients Total Lead and Mercury in surface coating materials

Test Method : Samples were prepared with reference to Health Canada, Product Safety Laboratory, Book 5 – Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2(total Pb), Method C-07(total Hg), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL
Total Lead (Pb)	0.0090	%	0.0020

Test Item(s)	No. 1	No. 2	No. 3
Total Lead (Pb)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	No. 4	No. 5	No. 6
Total Lead (Pb)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	No. 7	No. 8	No. 9
Total Lead (Pb)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	No. 10	No. 11	No. 12
Total Lead (Pb)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Remarks :

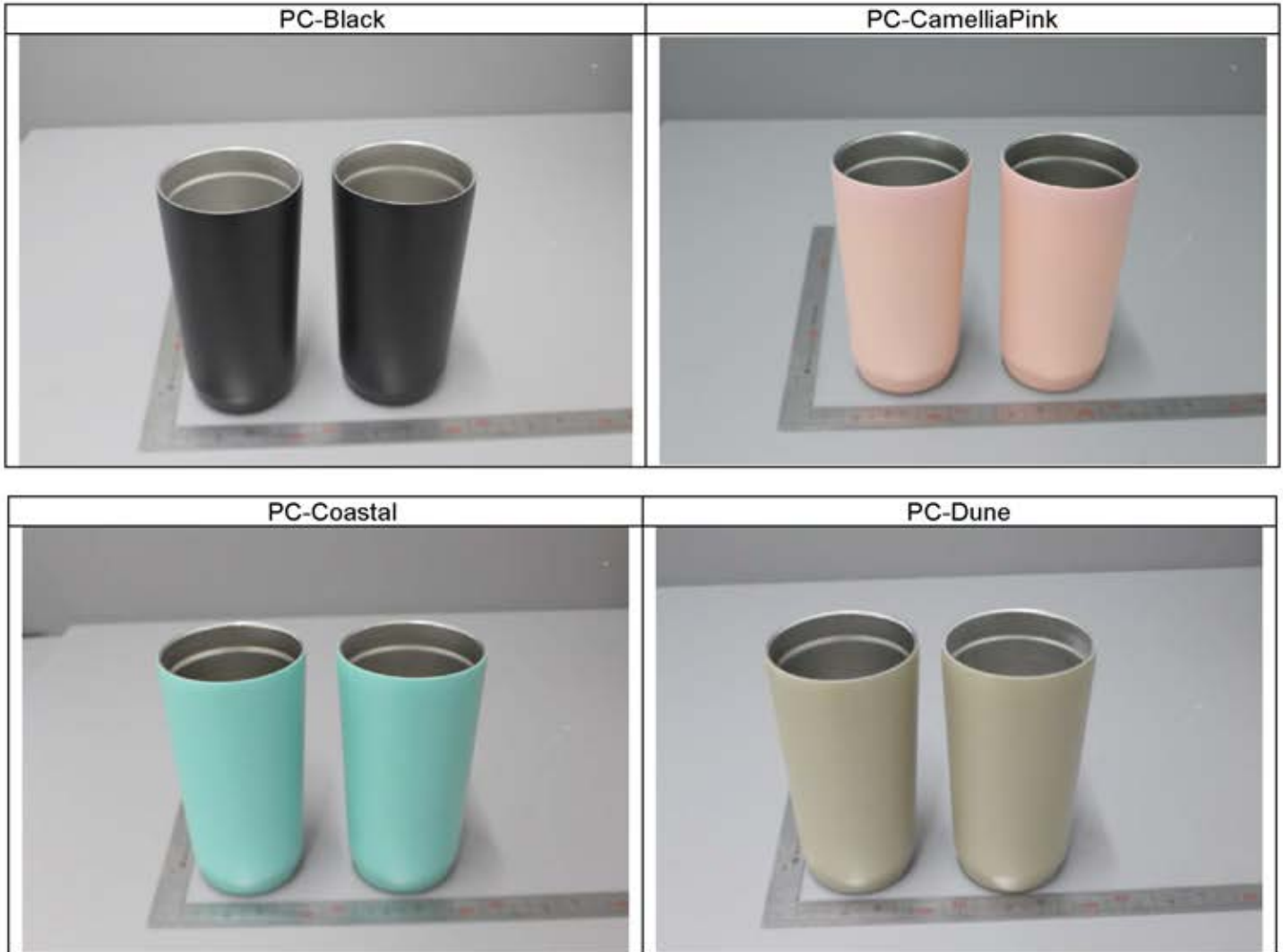
- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Remark:

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.



Sample Photo:



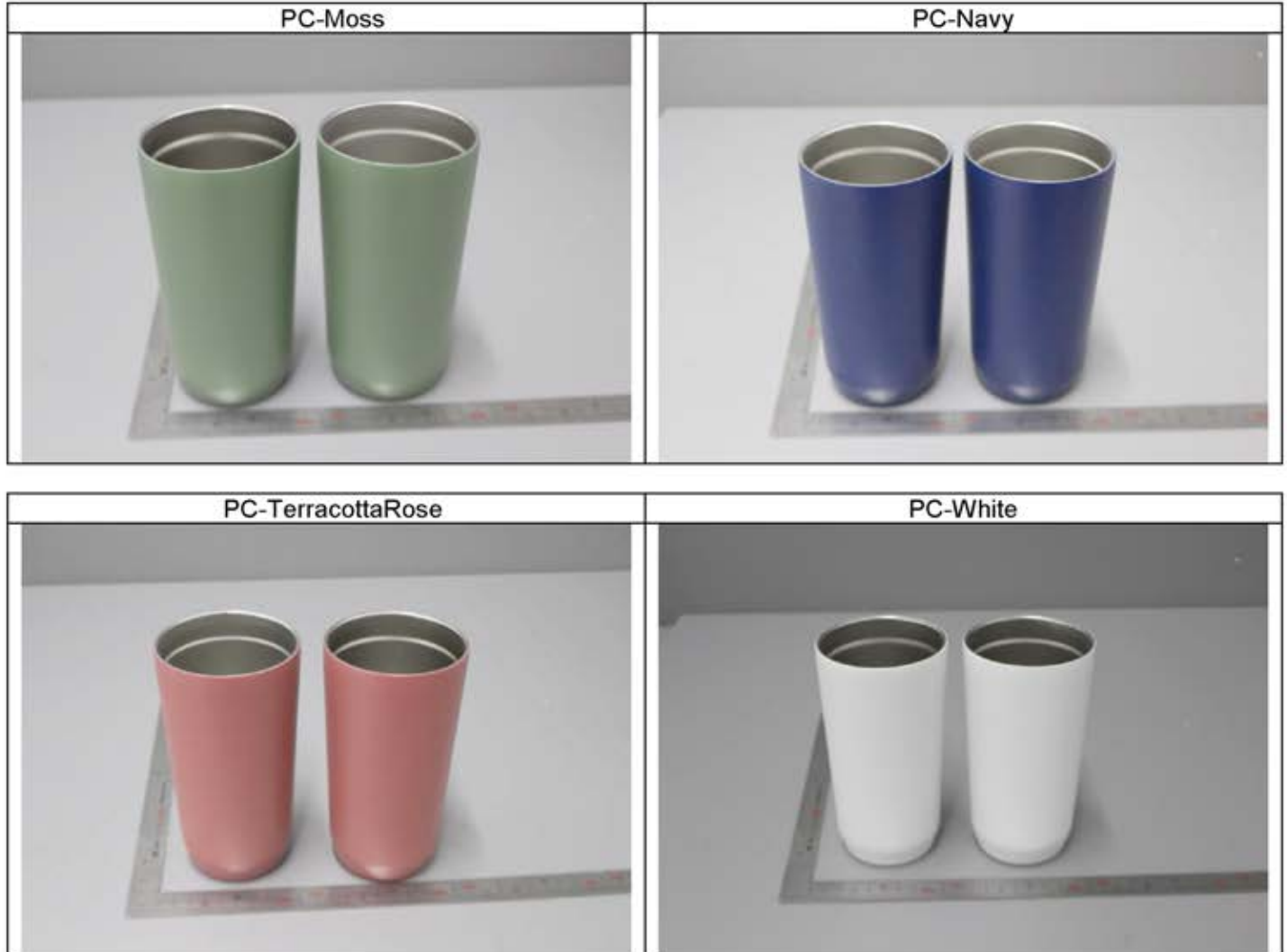
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End of Report



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