

TEST REPORT

Test Report # 22W-016093(A1) Date of Report Issue: November 14, 2022

Date of Sample Received: October 10, 2022 Pages: Page 1 of 30

CLIENT INFORMATION:

Company: Spector & Co.

Address: testing@spectorandco.com

SAMPLE INFORMATION:

Description: 18 OZ/532 ML DOUBLE WALL VACUUM INSULATED STAINLESS STEEL MUG

FEATURING A POWDER COATED FINISH

Assortment: -

PO No.: PO 31787 & 72320

Item No./Name: DW415

Item Class: 18 OZ XL CALL OF THE WILD MUG

Factory/Supplier: USS149
Country of Origin: China

Country of Distribution: Canada, United States

Testing Period: 10/14/2022-10/21/2022, 10/26/2022-11/02/2022, 11/09/2022-11/14/2022

OVERALL RESULT:

PASS with information

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

oremy. Xu

Jeremy Xu

RC-CSHZ-R063

Chemical Laboratory Supervisor

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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	California Proposition 65, Total Cadmium in Paints and Surface Coatings
PASS	California Proposition 65, Total Cadmium in Substrate Materials
Information only	Client's requirement, Total Nickel content
Information only	Client's Requirement, Total Tungsten content
PASS	Client's requirement, Bisphenol A content
PASS	CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	Client's Requirement, Phthalates content
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.2600, Rubber
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers



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DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10+11	12+13+28				Limit
Tost Itom	Result	Result	Result	Result	Result	(mg/kg)
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
Total Lead (Pb)	ND	ND				90
Conclusion	PASS	PASS				

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 4 of 30

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+4+14	2+3+5	6	7	8+9+15	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+19	18+22	20+21+23	24+25+27	26	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 5 of 30

DETAILED RESULTS:

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10+11	12+13+28				Total
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND	ND				90
Total Mercury (Hg)	ND	ND				10
Conclusion	PASS	PASS				

Note:

RC-CSHZ-R063

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit: Pb=15 mg/kg; Hg = 10 mg/kg)



Test Report # 22W-016093(A1) Pages: Page 6 of 30

DETAILED RESULTS:

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+4+14	2+3+5	6	7	8+9+15	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	10+11	12+13+28	16+17+19	18+22	20+21+23	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	24+25+27	26				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND				90
Conclusion	PASS	PASS				

Note:

RC-CSHZ-R063

mg/kg=Milligrams per kilogram)

LT = Less than

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



Test Report # 22W-016093(A1) Pages: Page 7 of 30

DETAILED RESULTS:

California Proposition 65, Total Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10+11	12+13+28				Limit
Tost Itom	Result	Result	Result	Result	Result	(mg/kg)
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(***6/ **6/
Total Cadmium (Cd)	ND	ND				75
Conclusion	PASS	PASS				

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 8 of 30

DETAILED RESULTS:

California Proposition 65, Total Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+4+14	2+3+5	6	7	8+9+15	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+19	18+22	20+21+23	24+25+27	26	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 9 of 30

DETAILED RESULTS:

Client's requirement, Total Nickel content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6+7+26					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Nickel(Ni)	75768					
Conclusion	Information only					

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

ND = Not detected (report limit = 30 mg/kg)



Test Report # 22W-016093(A1) Pages: Page 10 of 30

DETAILED RESULTS:

Client's Requirement, Total Tungsten content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6+7+26					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Tungsten (W)	40					
Conclusion	Information only					

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

LT = Less than

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



Test Report # 22W-016093(A1) Pages: Page 11 of 30

DETAILED RESULTS:

Client's requirement, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		2	3	4	5	Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Specimen No.		9	15	16	17	Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Specimen No.		19	20	21	23	Client's
Test Item CA	CAS No	Result	Result	Result	Result	limit
	CAS No.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Specimen No.		24	25			Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND			Not Detected
Conclusi	ion	PASS	PASS			

Note:

RC-CSHZ-R063

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1.0mg/kg)



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DETAILED RESULTS:

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	Specimen No.		2+3+5	8+9+15	10+11	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



Test Report # 22W-016093(A1) Pages: Page 13 of 30

DETAILED RESULTS:

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	0.	12+13+28	16+17+19	18+22	20+21+23	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



Test Report # 22W-016093(A1) Pages: Page 14 of 30

DETAILED RESULTS:

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	0.	24+25+27				Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND				1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND				1000
Diisobutyl phthalate (DIBP)	84-69-5	ND				1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND				1000
Conclusion	1	PASS				

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



Test Report # 22W-016093(A1) Pages: Page 15 of 30

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	Specimen No.		2+3+5	8+9+15	10+11	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 16 of 30

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		12+13+28	16+17+19	18+22	20+21+23	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 17 of 30

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		24+25+27				Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND				1000
Conclusion	1	PASS				

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 18 of 30

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	1+4+14	2+3+5	8+9+15	10+11	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND	ND	1000
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 19 of 30

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	12+13+28	16+17+19	18+22	20+21+23	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND	ND	1000
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



Test Report # 22W-016093(A1) Pages: Page 20 of 30

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	24+25+27				Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND				1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND				1000
Diethyl phthalate (DEP)	84-66-2	ND				1000
Diisobutyl phthalate (DIBP)	84-69-5	ND				1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND				1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND				1000
Conclusion		PASS				

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R063



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DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specimo	5				
Test Condition		Result	RL	Limit	
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.25hours	ND	10	50
8% Ethanol extractive (mg/kg)	Fill boiling	Fill boiling Cooling to 100°F		10	50
Conclu	PASS				

Note:

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.



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DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			2		
Tost Itam	Test Condition		Danult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.2	0.1	1
Distilled water extractive (mg/in²)	Reliux	2 hours	0.2	0.1	1
Conclusion			PASS		

Specimen No.			3		
Tost Itam	Test Condition		Danilt	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.2	0.1	1
Distilled water extractive (mg/in ²)	Reliux	2 hours	0.2	0.1	1
Conclusion			PASS		

Specimen No.			9		
Tost Itam	Test Condition		Result	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)	Renux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	
Distilled water extractive (mg/m-)	Reliux	2 hours	ND	0.1	1
Conclusion			PASS		

Note:

Temp. = Temperature

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

检验检测专思章 resu

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

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Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.
If it is not further specified in the report, the decision rule for stating conformity is based on the <u>QIMA decision rule</u>.
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DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			15		
Tost Itom	Test Condition		Result	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water outro stive (mea/im?)	Reflux	First	ND	2	20
Distilled water extractive (mg/in²)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	1
Distilled water extractive (mg/in ²)	Reliux	2 hours	טא	0.1	1
Conclusion			PASS		

Specimen No.			16		
Tost Itom	Test Condition		Danult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.2	0.1	1
Distilled water extractive (mg/in ²)	Reliux	2 hours	0.2	0.1	1
Conclusion			PASS		

Specimen No.			17		
Tost Itam	Test Condition		Result	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)	Kenux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.1	0.1	1
Distilled water extractive (mg/m-)	Reliux	2 hours	0.1	0.1	1
Conclusion			PASS		

Note:

Temp. = Temperature

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

检验检测专思章 resu

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

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DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			19		
Tost Itom	Test Condition		Danult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extremtive (mention)	Reflux	First	ND	2	20
Distilled water extractive (mg/in²)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.2	0.1	1
Distilled water extractive (mg/in ²)	Reliux	2 hours	0.2	0.1	1
Conclusion			PASS		

Specimen No.			20		
Tost Itom	Test Condition		Danult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)	Reliux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.2	0.1	1
Distilled water extractive (mg/in²)	Kellux	2 hours	0.2	0.1	1
Conclusion			PASS		

Specimen No.			21		
Tost Itam	Test Condition		Result	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)	Renux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	1
Distilled water extractive (mg/m-)	Reliux	2 hours	ND	0.1	1
Conclusion			PASS		

Note:

Temp. = Temperature

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

检验检测专思章 resu

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

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DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No	23				
Tost Itom	Test Condition		Dooult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)		7 hours			20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.4	0.1	1
Distilled water extractive (Hig/III)		2 hours		0.1	1
Conclusion	PASS				

Specimen No	24				
Tost Itom	Test Condition		Dooult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (Hig/III)		7 hours			20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.1	0.1	1
Distilled water extractive (flig/iii)		2 hours		0.1	1
Conclusion	PASS				

Specimen No	25				
Test Item	Test Condition		Docul+	RL	Limit
restitem	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)		7 hours		2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	0.1	0.1	1
Distilled water extractive (mg/m/)		2 hours		0.1	1
Conclusion	PASS				

Note:

Temp. = Temperature

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

检验检测专思章 resu

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

From Client's information, rubber article was intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

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Test Report # 22W-016093(A1) Pages: Page 26 of 30

DETAILED RESULTS:

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32

Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No	4				
Test Simulant	Test Condition		Docul+	RL	Limit
Test Simulant	Temp.	Duration	Result	KL	Limit
3% Acetic acid extractive (mg/in²)	120°F 2 hours		ND	0.001	0.003
Conclusion	PASS				

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in² = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R063

The specification is quoted from 21 CFR 181.32 (b) (3).



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DETAILED RESULTS:

FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method: SN/T 2718-2010

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6					Limit
Test Item	Result (% m/m)	(% m/m)				
Total Chromium (Cr)	18.88					GT 16
Conclusion	PASS					

Note:

% m/m = Percent by mass

GT = Greater than

Remark:

RC-CSHZ-R063

The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.

А3



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SPECIMEN DESCRIPTION:

RC-CSHZ-R063

Specimen No.	Specimen Description	Location
1	Olive green plastic	Flip cap (olive green style)
2	Olive green soft plastic	Flip cap gasket (olive green style)
3	Olive green soft plastic	Stopper (olive green style)
4	Transparent plastic	Lid (olive green style)
5	Black soft plastic	Sealing ring (all styles)
6	Silvery metal	Interior (olive green style)
7	Silvery metal	Exterior (olive green style)
8	Black soft plastic	Pad (olive green style)
9	Olive green soft plastic	Straw (olive green style)
10	Olive green coating	Raw material
11	Grey coating	Raw material
12	White coating	Raw material
13	Black coating	Raw material
14	Grey plastic	Flip cap (grey style)
15	Grey soft plastic	Flip cap gasket (grey style)
16	Grey soft plastic	Stopper (grey style)
17	Grey soft plastic	Straw (grey style)
18	Black plastic	Flip cap (black style)
19	Black soft plastic	Flip cap gasket (black style)
20	Black soft plastic	Stopper (black style)
21	Black soft plastic	Straw (black style)
22	White plastic	Flip cap (white style)
23	White soft plastic	Flip cap gasket (white style)
24	White soft plastic	Stopper (white style)
25	White soft plastic	Straw (white style)
26	Silvery metal	Brush handle
27	Transparent soft plastic	Bristle
28	White coating	Brush top

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SAMPLE PHOTO:

RC-CSHZ-R063







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SAMPLE PHOTO:

RC-CSHZ-R063





-End Report-