



Test Report No.: 68.431.21.02597.01CR1

Dated: 2021-08-11

Applicant : Spector & Co

Address : /

Sample Description : Mean Muggin 2.0 Shiny Electroplated

PO / Order No. : Po 71764, Po 31740

Style No. : DW407

Supplier : USS049

Country of Origin : China

Country of Destination : CANADA & U.S.A.

Test Sample Receipt Date, Location : 2021-05-10, 2021-06-18, 2021-06-21, Shenzhen

Test Period, Location : From 2021-05-18 to 2021-06-25, Shenzhen

Test Result(s) : Refer to Section 3

Laboratory:
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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
3.	US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 – Total Lead Content Test	Pass
7.	Phthalates Content (11P)	Pass*
8.	US California Proposition 65 - Phthalates Content (6P)	Pass*
9.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
10.	Tungsten Content Test	Report As Is
11.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
12.	Nickel Content Test	Report As Is
13.	FDA CFR Title 21 Part 177.2600 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2600	Pass
14.	FDA CFR Title 21 Part 177.1210 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210	Pass
15.	FDA CFR Title 21 Part 177.1640 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640	Pass
16.	Total Chromium Content Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "*" denotes the conclusion was drawn according to the client's specification.

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(4) The test item and samples were specified by the client.

(5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "pass", "Fail" and "Inconclusive" is 95%.

(6) "ND" denotes below the Report Limit

(7) All results are transferred from 68.431.21.02597.01A issued on 2021-07-07.

(8) This report supersedes previous report 68.431.21.02597.01C issued on 2021-08-03. As per client's request, update the sample description on page 1 & 4.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

TÜV SÜD Group

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Reviewed by:

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<Senior Project Coordinator>

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1. Description of the Test Sample:

Sample Description	Mean Muggin 2.0 Shiny Electroplated
	



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Transparent plastic (Lid) (DW407)	
T2	002	Black silicone (Sealing ring) (DW407)	
T3	003	White silicone (Stopper) (DW407)	
T4	004	Transparent coating (Body) (DW407)	
T5	005	Matt-black coating (Bottom) (DW407)	
T6	006	Silver stainless steel (Inner body) (DW407)	
T7	007	Silver stainless steel (Outside body) (DW407)	
T8	008	Golden plated metal (Body) (DW407)	
T9	009	White coating (Body) (DW406)	



3. Test Result

3.1 US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

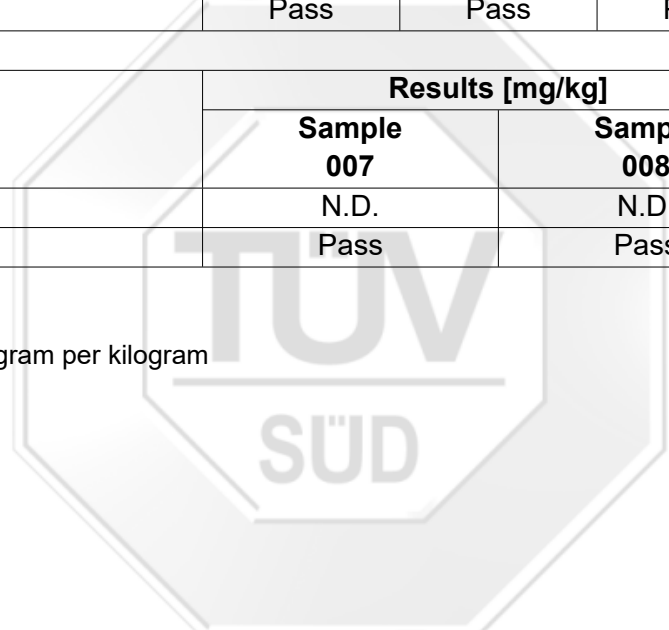
Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001	Sample 002+003	Sample 006	
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

Test item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 007	Sample 008	
Cadmium	N.D.	N.D.	<75
Conclusion	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than





3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 004	Sample 005	
Cadmium	N.D.	N.D.	<75
Conclusion	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than





3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials

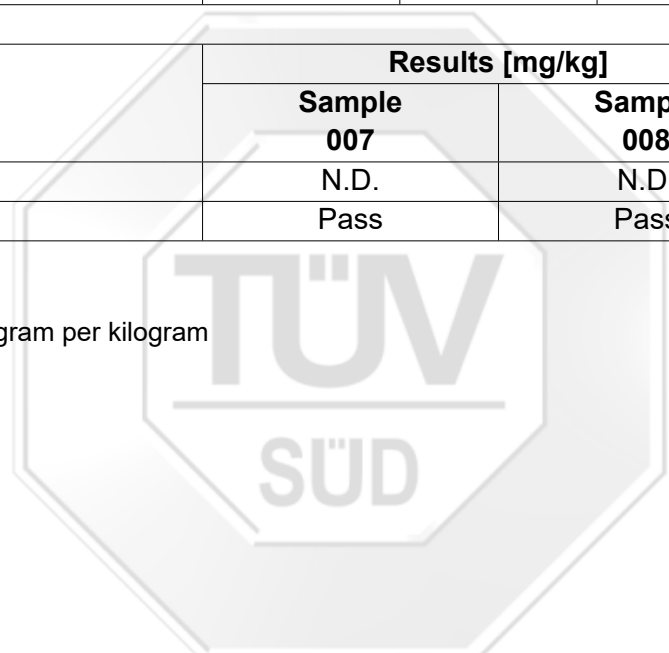
Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001	Sample 002+003	Sample 006	
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

Test Item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 007	Sample 008	
Lead	N.D.	N.D.	<100
Conclusion	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than





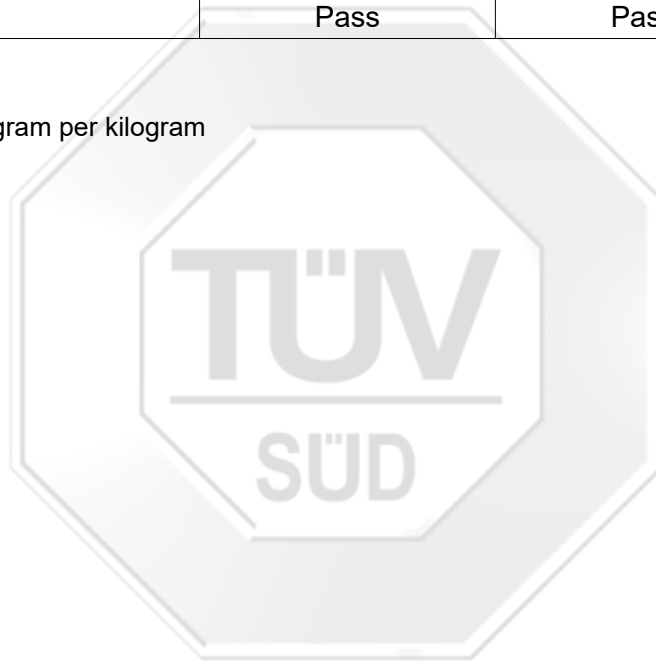
3.4 US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]		Client's Specification [mg/kg]
	Sample 004	Sample 005	
Lead	N.D.	N.D.	<90
Conclusion	Pass	Pass	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



3.5 Total Lead Content Test

Consumer Products Containing Lead Regulations SOR/2018-83
 Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Analyte	Result [mg/kg]		
	Sample 001	Sample 002+003	Sample 004
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 005	Sample 006	Sample 007
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]
	Sample 008
Lead	N.D.
Limit	<90
Conclusion	Pass

Note 1. "mg/kg" denotes milligram per kilogram
 2. "<" denotes less than



3.6 Total Lead Content Test

Surface Coating Materials Regulations SOR/2016-193

Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Analyte	Result [mg/kg]	
	Sample 004	Sample 005
Lead	N.D.	N.D.
Limit	<90	
Conclusion	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than



3.7 Phthalates Content (11P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001	Sample 002+003	Sample 004+005+009	
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

3. Sample 009 does not exist in this product. It referring to sample 009 of Technical Report No. 68.431.21.02597.01B.

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3.8 US California Proposition 65 - Phthalates Content (6P)

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001	Sample 002+003	Sample 004+005+009	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

3. Sample 009 does not exist in this product. It referring to sample 009 of Technical Report No. 68.431.21.02597.01B.

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3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 001	Sample 002+003	Sample 004+005+009	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

3. Sample 009 does not exist in this product. It referring to sample 009 of Technical Report No. 68.431.21.02597.01B.

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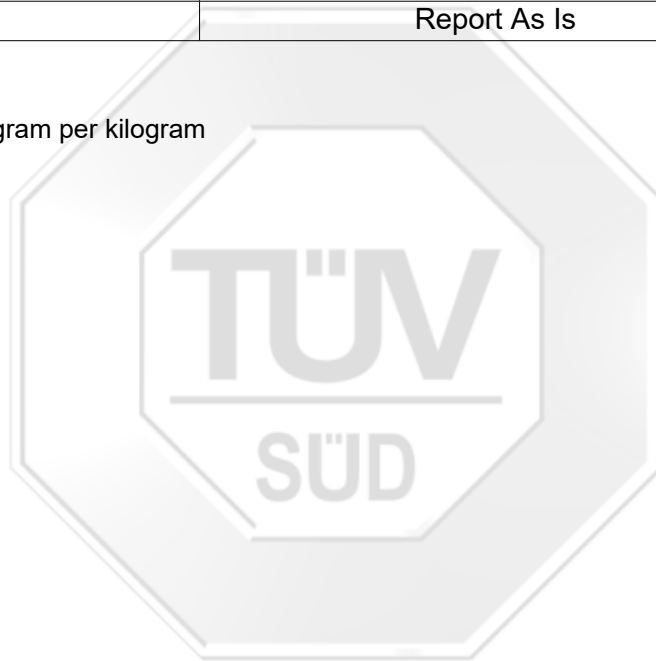
3.10 Tungsten Content Test

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 006	
Tungsten	N.D.	-
Conclusion	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than





3.11 Total Mercury Content Test

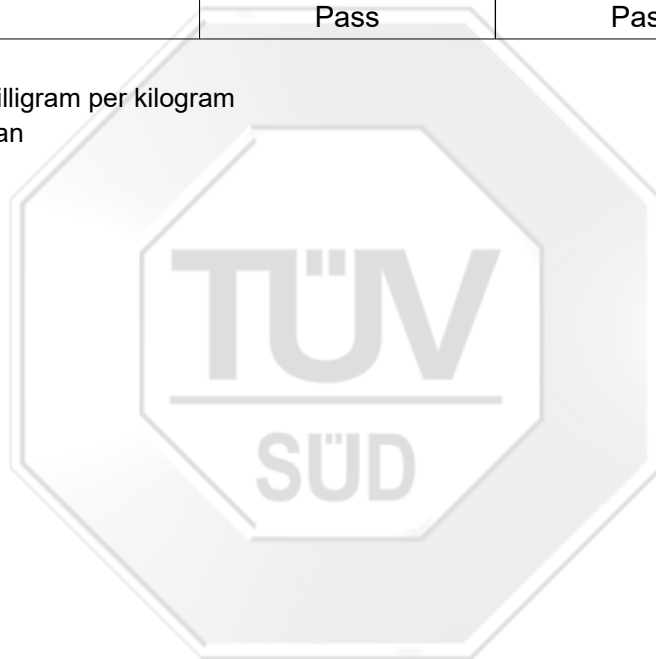
Surface Coating Materials Regulations SOR/2016-193

Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]		Limit [mg/kg]
	Sample 004	Sample 005	
Mercury	N.D.	N.D.	<10
Conclusion	Pass	Pass	-

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than



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3.12 Nickel Content Test

Test method: Acid digestion and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 5.0mg/kg]

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 006	Sample 007	Sample 008	
Nickel	82468.168	12970.660	17043.741	-
Conclusion	Report As Is	Report As Is	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



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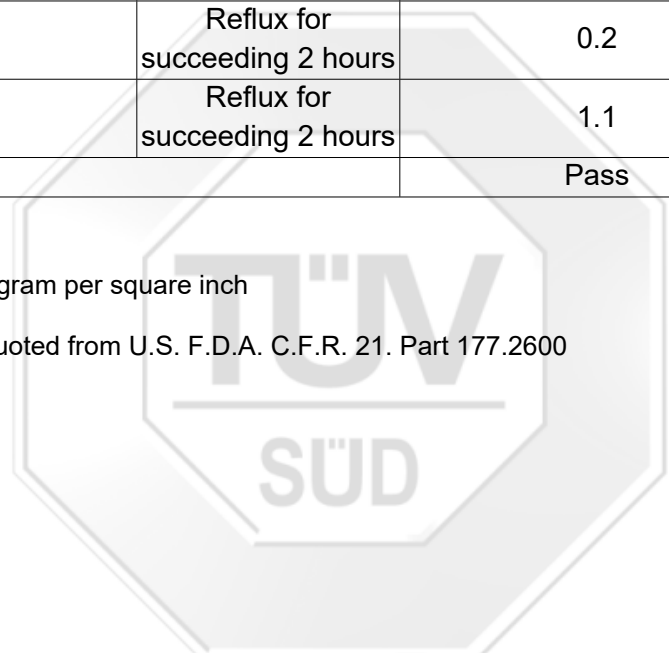
3.13 FDA CFR Title 21 Part 177.2600

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2600

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/in ²]	CFR Specification [mg/in ²]
		SAMPLE 003	
Distilled water	Reflux for 7 hours	<1.0	20
n-hexane	Reflux for 7 hours	14.7	175
Distilled water	Reflux for succeeding 2 hours	0.2	1
n-hexane	Reflux for succeeding 2 hours	1.1	4
Conclusion		Pass	-

Note:

1. "mg/in²" denotes milligram per square inch
2. "<" denotes less than
3. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.2600





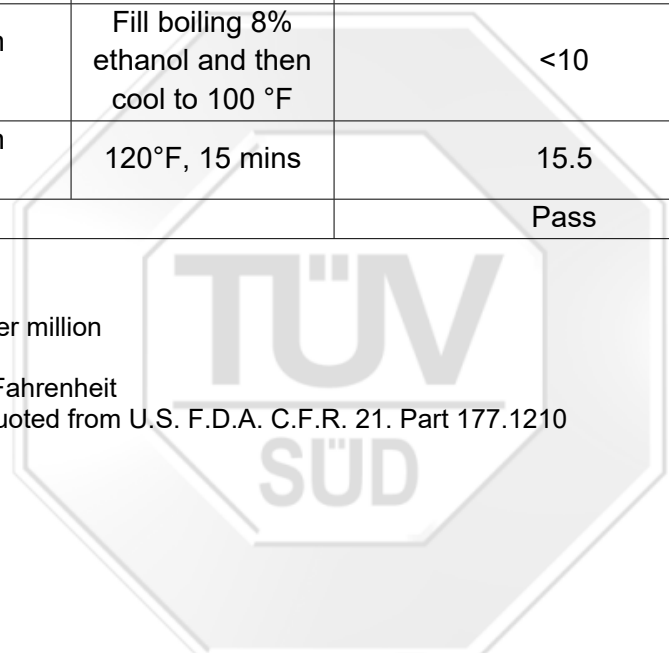
3.14 FDA CFR Title 21 Part 177.1210

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	RESULT [ppm]	CFR Specification [ppm]
		SAMPLE 002	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F	<10	50
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	<10	50
Chloroform extractives in N-heptane	120°F, 15 mins	15.5	250
Conclusion		Pass	-

Note:

1. "ppm" denotes part per million
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210





3.15 FDA CFR Title 21 Part 177.1640

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640

TEST ITEMS	RESULTS [%]	CFR Specification [%]
	SAMPLE 001	
Residual styrene monomer Content	0.06	1.0
Conclusion	Pass	-

Note:

1. “%” denotes percent by weight
2. “<” denotes less than
3. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1640

3.16 Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel

Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	Sample 006
Total Chromium(Cr)	17.89
Limit	Not less than 16
Conclusion	Pass

Note:

- “%” denotes percentage by weight

-- END OF TEST REPORT--

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