

Test Report

No. CANAF2123406202

Date: 07 Jan 2022

Page 1 of 12

GUANGDONG COOLWAY TECHNOLOGY CO., LTD.

BUILDING 2, NO. 7, JINHU ROAD, SANZAO TOWN, JINWAN DISTRICT, ZHUHAI CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Tritan and SUS304 sport Bottle with Filter

SGS Job No. : XMF21-011044 - XM
 Internal Reference No. : XMF21-011044
 Manufacturer : /
 Batch No. : /
 Production Date : /
 Date of Sample Received : 10 Dec 2021
 Testing Period : 10 Dec 2021 - 28 Dec 2021
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
FDA 21 CFR 180.22&181.32-Acrylonitrile monomer extraction	PASS
FDA 21 CFR 177.1350-Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2420-Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2600-Total extractive residues	PASS
FDA 21 CFR 177.1520-Maximum extractable fraction in n-Hexane	PASS
FDA 21 CFR 177.1520-Maximum soluble fraction in xylene	PASS
US FDA Generally Recognized As Safe (GRAS) Specifications in stainless steel-Total Chromium content	PASS
FDA 21 CFR 177.1520-Maximum soluble fraction in xylene	PASS
FDA 21 CFR 177.1520-Density at 23°C	PASS
FDA 21 CFR 177.1520-Melting Point	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center Chemical Laboratory.

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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory



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Test Report

No. CANAF2123406202

Date: 07 Jan 2022

Page 3 of 12

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN21-234062.001	Translucent silicone nozzle	Silicone
SN2	CAN21-234062.002	White plastic lid	ABS
SN3	CAN21-234062.003	Black silicone ring	Silicone
SN4	CAN21-234062.004	White plastic	PP
SN5	CAN21-234062.005	Beige soft part	EVA
SN6	CAN21-234062.006	Translucent plastic	PE
SN7	CAN21-234062.007	Grey transparent plastic bottle	PCTG
SN8	CAN21-234062.008	Ping transparent plastic bottle	PCTG
SN9	CAN21-234062.009	Blue transparent plastic bottle	PCTG
SN10	CAN21-234062.010	Silvery metal bottle	Stainless steel

FDA 21 CFR 180.22&181.32-Acrylonitrile monomer extraction

Test Method : With reference to FDA 21 CFR 180.22 & 181.32.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	0.003mg/inch ²	<0.001mg/inch ²	PASS

Notes :

mg/inch²= milligram per square inch

FDA 21 CFR 177.1350-Chloroform-soluble extractive residues

Test Method : With reference to US FDA 21 CFR 177.1350.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 005</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	0.5mg/inch ²	<0.2mg/inch ²	PASS

Notes :

mg/inch²= milligram per square inch

FDA 21 CFR 177.2420-Chloroform-soluble extractive residues

Test Method : With reference to US FDA 21 CFR 177.2420.



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Test Report

No. CANAF2123406202

Date: 07 Jan 2022

Page 4 of 12

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 007</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	0.1mg/inch ²	<0.1mg/inch ²	PASS
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 008</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	0.1mg/inch ²	<0.1mg/inch ²	PASS
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 009</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	0.1mg/inch ²	<0.1mg/inch ²	PASS

Notes :

- 1.mg/inch²= milligram per square inch
- 2.Limit = Reference limit.

FDA 21 CFR 177.2600–Total extractive residues

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

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	PASS
Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	PASS
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003</u>	<u>Comment</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	PASS
Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	PASS

Notes :

mg/inch²= milligram per square inch

FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane

Test Method : For 004:with reference to US FDA 21 CFR 177.1520 d(3)(i).
For 006:with reference to US FDA 21 CFR 177.1520 d(3)(ii).



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Test Report

No. CANAF2123406202

Date: 07 Jan 2022

Page 5 of 12

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004</u>	<u>Comment</u>
n-Hexane	2hr(s)	Reflux temperature	6.4%(w/w)	<0.5%(w/w)	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 006</u>	<u>Comment</u>
n-Hexane	2hr(s)	50°C	5.5%(w/w)	0.6%(w/w)	PASS

Notes :

%w/w = percentage of weight by weight

FDA 21 CFR 177.1520–Maximum soluble fraction in xylene

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Soluble fraction in Xylene	11.3	%(w/w)	0.5	3.2
Comment				PASS

Notes :

1. %w/w = percentage of weight by weight
2. ND= Not Detected(less than MDL)

US FDA Generally Recognized As Safe (GRAS) Specifications in stainless steel-Total Chromium content

Test Method : SGS In-house method (GZTC CHEM-TOP-044-28 or GZTC CHEM-TOP-175-01), followed by ICP-OES or titration method.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>
Total Chromium	≥16	%(w/w)	0.01	18.75
Comment				PASS

Notes :

1. %(w/w) = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)



FDA 21 CFR 177.1520–Maximum soluble fraction in xylene

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Soluble fraction in Xylene	9.8	%(w/w)	0.5	3.3
Comment				PASS

Notes :

- 1. %w/w = percentage of weight by weight
- 2. ND= Not Detected(less than MDL)

FDA 21 CFR 177.1520–Density at 23°C

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Density at 23°C, g/ cm ³	0.880-0.913	0.912
Comment		PASS

FDA 21 CFR 177.1520–Density at 23°C

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>006</u>
Density at 23°C, g/ cm ³	0.850 - 1.000	0.917
Comment		PASS

FDA 21 CFR 177.1520–Melting Point

Test Method : With reference to US FDA 21 CFR 177.1520 d(2).



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Test Report

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Page 7 of 12

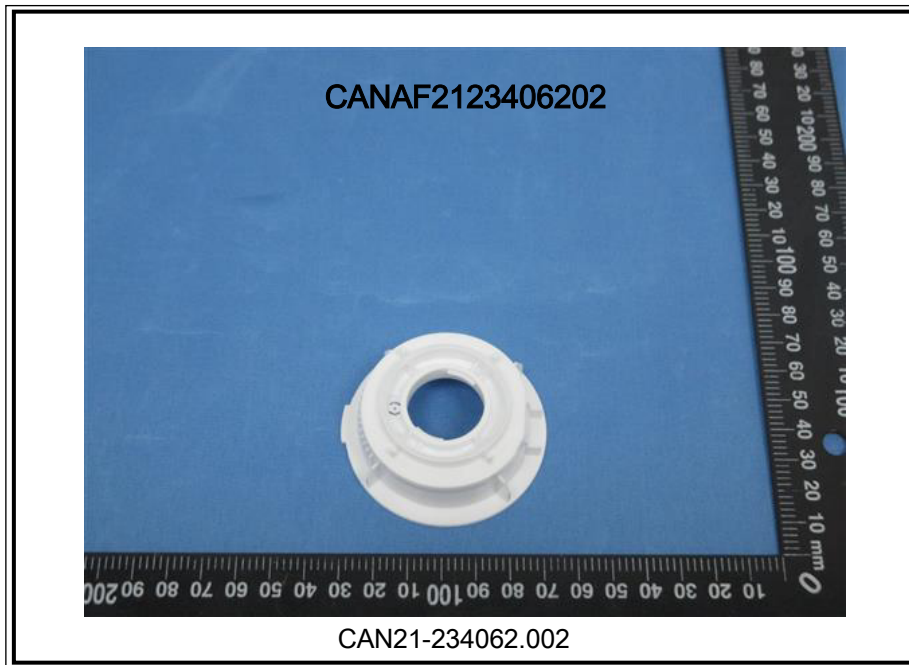
<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Melting Point, °C	160-180	166.5
Comment		PASS



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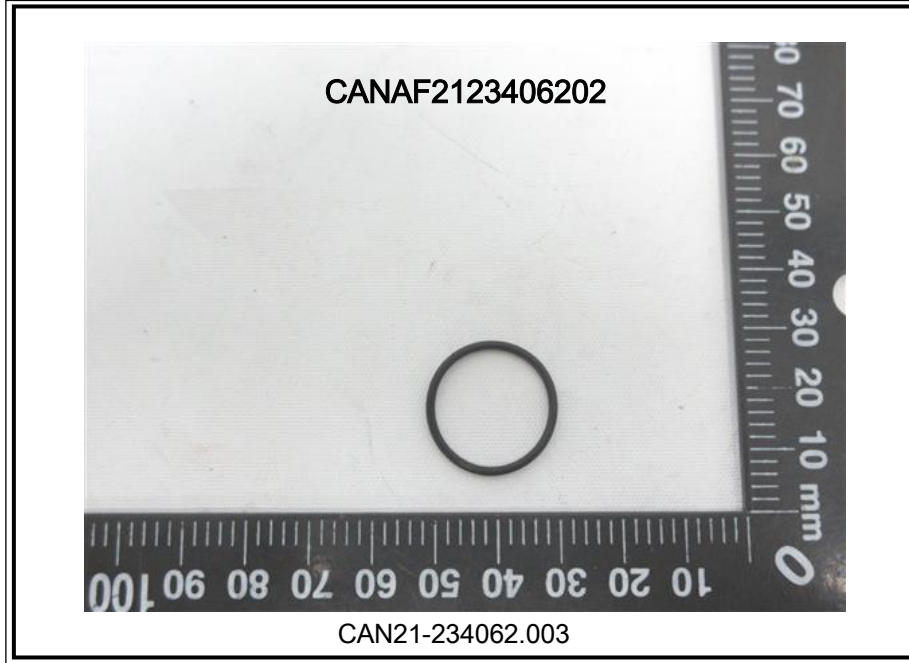
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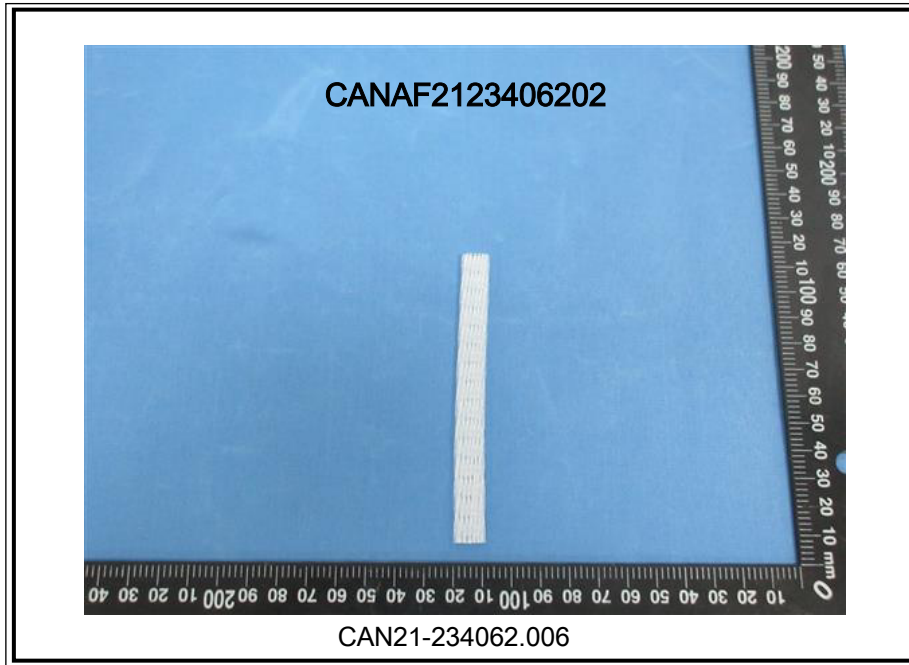
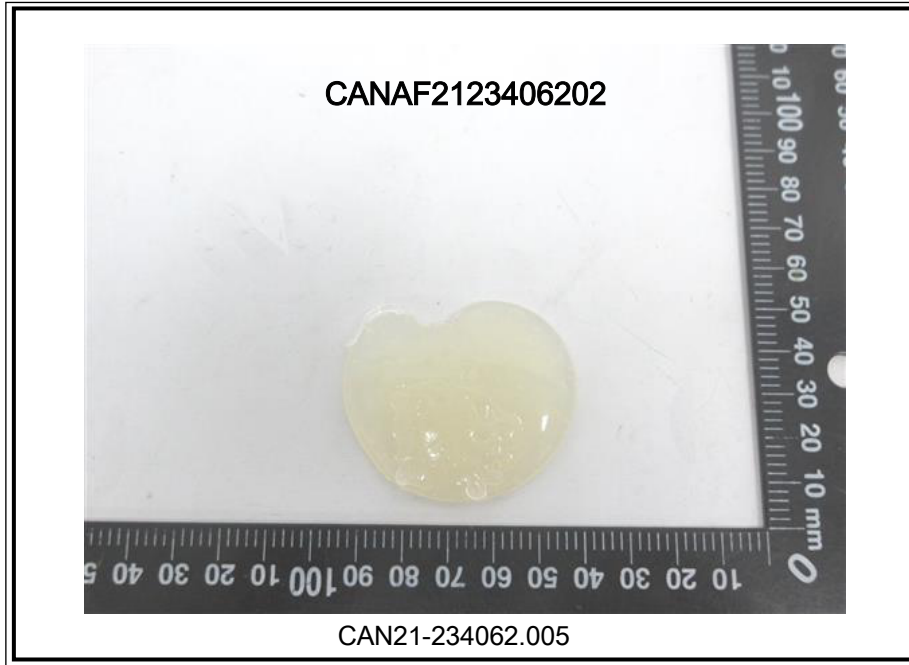
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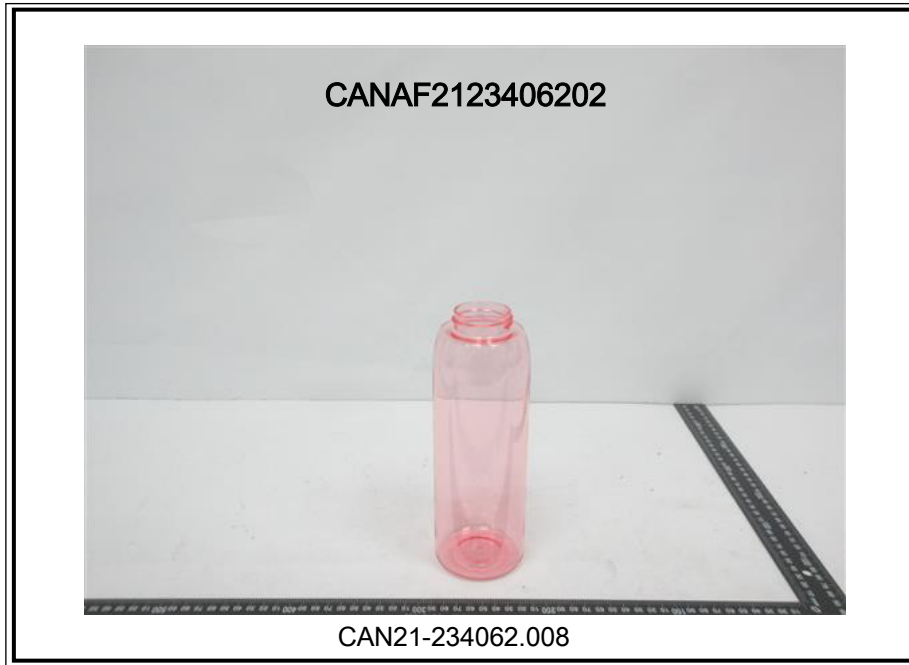
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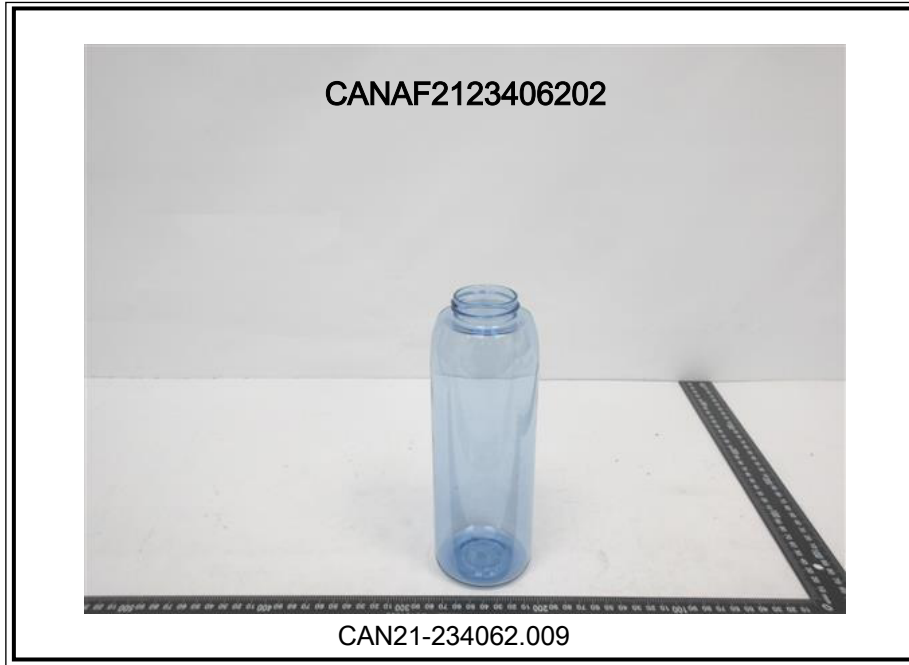




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