ennopure

Filter & Bottle Performance

Our filters and bottles are tested by third party labs against NSF/ANSI 53, 61, 372 and US FDA 21 CFR 175, 177 standards to be effective against a wide range of contaminants.

Coffee Grounds Filter

Contaminants Filtered	Removal Rate
Lead pH 6.5 (NSF/ANSI 53)	99%
Lead pH 8.5 (NSF/ANSI 53)	98%
Chlorine (NS/ANSI 42)	>99%
PFOA (NSF/ANSI 53)	>98%
PFOS (NSF/ANSI 53)	100%
COD (Mn)	85%
Tetracycline	98%

Ennopure Bottle

NSF 61 Lead Content	Result
Suction Nozzle	Pass
Bottle Cap	Pass
Inner Ceramics Coating	Pass
Connector	Pass
Filter Cap	Pass
Filter Housing	Pass
Straw	Pass
Carbon Fiber Filter	Pass

Our filters and bottles are tested by third party labs against NSF/ANSI 53, 61, 372 and US FDA 21 CFR 175, 177 standards to be effective against a wide range of contaminants.

Ennopure Bottle (Continued)

NSF/ANSI 372 - Lead Content	Result
General Requirement	Pass
All Components ≤ 0.25%	Pass
Weighted Average Lead Content Calculation	Pass
Component Surface Areas and Lead Content	Pass

US FDA 21 CFR 175	Result
Total Extractives	Pass
Extractable Fraction	Pass
Soluble Fraction in Xylene	Pass
Leachable Lead and Cadmium	Pass

US FDA 21 CFR 177	Result
Extractable Fraction	Pass
Solubility in Toluene	Pass

ennopure

Third-party Lab Reports

Test Report **XMF23-013504-01** **Date: 25 Mar 2024**

Client name:	EnnoPure, Inc.
Client address:	1153 Tasmna Dr，Sunnyvale，CA 94089
Sample name:	Ennopure Filtered Bottle
Manufacturer:	EnnoPure, Inc.
Sample Batch No.:	20231101-01
Production Date:	2023.11.01

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No.:	XMF23-013507/ XMF23-013509/ XMF23-013510/ XMF23-013511/ XMF23-013512/XMF24-000957
Date of Sample Received:	11 Dec 2023
Testing Period:	11 Dec 2023 -15 Mar 2024
Test Requested:	Selected test(s) as requested by client.
Test Method:	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

Test Report **XMF23-013504-01** **Date: 25 Mar 2024**

Sample Description:

Specimen No.	SGS Sample ID	Description
1	XMF23-013504.001	Ennopure Filtered Bottle

Test requested:

Selected test(s) as requested by applicant:
Test the removal Rate of COD(Mn), Tetracycline, PFOA and PFOS at the start-up.
Test the removal Rate of Free Chlorine at the start-up, 20 L (10%), 40 L (20%), 60 L (30%), 80 L (40%), 100 L (50%), 120 L (60%), 140 L (70%), 160 L (80%), 180 L (90%), 200 L (100%).
Test the removal Rate of Lead at the start-up, 50 L (25%), 100 L (50%), 150 L (75%), 200 L (100%), 240 L (120%).

Test method(s):

Free Chlorine reduction testing: NSF/ANSI 42-2021 Drinking Water Treatment Units-Aesthetic Effects.
Lead reduction testing (pH 6.5): NSF/ANSI 53-2021 Drinking Water Treatment Units-Health Effects.
COD(Mn), Tetracycline, PFOA, PFOS reduction testing: Hygienic Function Testing (Challenge Testing): Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Device.
Free Chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water – Disinfectants parameters.
COD(Mn): GB/T 5750.7-2023 Standard examination methods for drinking water-Part7: Aggregate Organic Indices.
Tetracycline, PFOA, PFOS: SGS Inhouse Method HPLC MS/MS.
Lead (pH 6.5): GB/T 5750.6-2023 Standard examination methods for drinking water-Part 6: Metal and metalloid indices.
Lead (pH 8.5): EPA 200.8-revision 5.4.

Test Result(s):

Test Point	Test item(s)	Unit(s)	Test method(s)	Test Result(s)		*Removal Rate (%)
				Influent spiked water	Effluent filtrated water	
Start-up	COD(Mn)	mg/L	GB/T 5750.7-2023	15.7	2.30	85.4
Start-up	Tetracycline	mg/L	SGS Inhouse Method HPLC MS/MS	1.442	0.031	97.8
Start-up	PFOA	mg/L	SGS Inhouse Method HPLC MS/MS	0.61	<0.01	>98.3
Start-up	PFOS	mg/L	SGS Inhouse Method HPLC MS/MS	2.19	<0.01	>99.5
Start-up	Free Chlorine	mg/L	GB/T 5750.11-2023	2.05	<0.02	>99.0
20 L (10%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	<0.02	>99.0
40 L (20%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.05	<0.02	>99.0
60 L (30%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	<0.02	>99.0

Test Report **XMF23-013504-01** **Date: 25 Mar 2024**

Test Point	Test item(s)	Unit(s)	Test method(s)	Test Result(s)			*Removal Rate1 (%)	*Removal Rate2 (%)
				Influent spiked water	Effluent filtrated water1	Effluent filtrated water2		
Start-up	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	181	5	4	97.2	97.8
50 L (25%)	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	156	3	3	98.1	98.1
100 L (50%)	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	160	3	3	98.1	98.1
150 L (75%)	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	158	2	2	98.7	98.7
200 L (100%)	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	155	2	2	98.7	98.7
240 L (120%)	Lead (pH 8.5)	µg/L	EPA 200.8-revision 5.4	155	2	2	98.7	98.7

Remark:

1.*Removal Rate (%) = (The test result of Influent water - The test result of Effluent water) / The test result of Influent water x100%

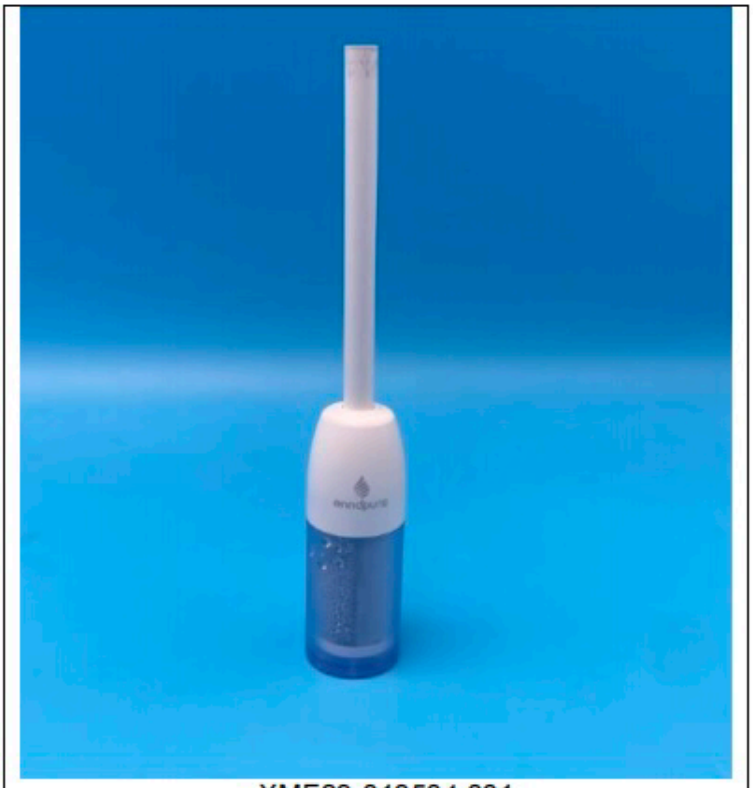
2.Flow rate: 0.5L/min.

3.Total purified water capacity: 200 L.

4.The result of COD(Mn) test item equals to Permanganate index (O_2) test item.

Test Report **XMF23-013504-01** **Date: 25 Mar 2024**

Sample photo:



XMF23-013504.001

SGS authenticate the photo on original report only

Attention:

Unless otherwise stated the results shown in this report refer only to the items tested. The test report shall only be used for scientific research, technology research and development, teaching, internal quality control in the People's Republic of China.

*** End ***

Test Report **XMF23-013504-01** **Date: 25 Mar 2024**

Test Point	Test item(s)	Unit(s)	Test method(s)	Test Result(s)		*Removal Rate (%)
				Influent spiked water	Effluent filtrated water	
80 L (40%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	<0.02	>99.0
100 L (50%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	0.02	99.0
120 L (60%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	0.02	99.0
140 L (70%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	0.02	99.0
160 L (80%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.00	0.02	99.0
180 L (90%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.05	0.03	98.5
200 L (100%)	Free Chlorine	mg/L	GB/T 5750.11-2023	2.05	0.03	98.5

Test Point	Test item(s)	Unit(s)	Test method(s)	Test Result(s)			*Removal Rate1 (%)	*Removal Rate2 (%)
				Influent spiked water	Effluent filtrated water1	Effluent filtrated water2		
Start-up	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	161.7	2.5	3.8	98.5	98.5
50 L (25%)	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	158.3	1.7	2.2	98.9	98.9
100 L (50%)	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	98.8	1.9	1.9	98.1	98.2
150 L (75%)	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	160.6	2.8	4.6	98.3	98.3
200 L (100%)	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	142.2	3.3	4.5	97.7	97.7
240 L (120%)	Lead (pH 6.5)	μg/L	GB/T 5750.6-2023 ICP-MS	141.3	1.8	3.7	98.7	98.7

Test Report

No.: NBHL2312023649PL Date: JAN. 23, 2024 Page: 1 of 8

ENNOPURE,INC.
1153 TASMNA DR, SUNNYVALE, CA 94089

The following sample(s) was/were submitted and identified by the client as:

Sample Description	: ENNOPURE FILTERED BOTTLE
Manufacturer	: ENNOPURE,INC.
Sample Receiving Date	: DEC. 19, 2023
Testing Period	: DEC. 19, 2023 TO JAN. 23, 2024
Test Performed	: SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested	: NSF/ANSI 372-2022 DRINKING WATER SYSTEM COMPONENTS LEAD CONTENT
Test Result(s)	: FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)
Conclusion	: THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT

Dan Jiang JAN. 23, 2024

Tested by: Dan Jiang (Test Engineer) Date: JAN. 23, 2024

Ace Hong Scan to see the report NBHL2312023649PL Verification: check.sgsonline.com.cn JAN. 23, 2024

Approved by: Ace Hong (Test Supervisor) Date: JAN. 23, 2024

Statement:

1. All portions of each test performed were under continuous and direct supervision of SGS CTS/HEC Hardgoods Lab.
2. The test report shall not be reproduced except in full, without written approval of the laboratory.

Test Conducted:

1. NSF/ANSI 372 - 2022 Drinking Water System Components Lead Content

Sample Size: 2 pieces

Clause	Test Method / Requirement	Result	Rating
3 General Requirement	Solders and fluxes shall have a lead content less than or equal to 0.2%. All other products shall have weighted average lead content less than or equal to 0.25% based on the average of their wetted surface areas.	See Below	Pass
3.1 All components ≤ 0.25%	If each component of a product has a wetted surface with a lead content of not more than 0.25%, then the product is considered compliant and no further evaluation is required.	See Section 4	Pass
3.2 Any components > 0.25%	If any wetted components of a product have a surface area with a lead content of more than 0.25% lead, then the weighted average lead content shall be calculated according to Section 4 to determine compliance.	/	N/A
3.3 Restriction on the use of lead containing materials	There shall be no lead added as an intentional ingredient in any product, component, material, or their coatings submitted for evaluation to this standard with the exception of brass or bronze meeting the definition of “lead free” under the specific provisions of the Safe Drinking Water Act5 of the United States.	/	N/A
4 Weighted average lead content calculation	The weighted average lead content of the product shall be calculated using the surface area and lead content information established under Section 4.1. For internal NPT (pipe) threads, engagement of male components into female threads will assume that 25% of the length of the female thread remains exposed as wetted surface area. All of the wetted surfaces are to be included in the weighted average lead content calculation, not just those surfaces that contain lead. The results of the weighted average lead calculation shall be rounded to two decimal places prior to determination of compliance.	/	Pass

Clause	Test Method / Requirement	Result	Rating
4.1 Component surface areas and lead content	The following information shall be established to determine the weighted average lead content: – a list of all components and materials and their corresponding surface areas that come into direct contact with water; and – the maximum lead content of each material as specified by reference to a national or international standardized material specification (e.g., UNS copper alloy specification). If the material is not formulated to a national or international standardized specification, the manufacturers material specification shall be used.	/	Pass
4.2 Formula for determining weighted average lead content	The following formula shall be used when calculating the weighted average lead content of products: $WLC = \sum_{c=1}^{n} \left(LC_c \times \left[\frac{WSA_c}{WSA_t} \right] \right)$ where; WLC = weighted average lead content of product LCc = maximum lead content of the c^{th} component WSAc = wetted surface area of the c^{th} component WSAt = total wetted surface area of all components n = number of wetted components in product NOTE — An example calulation of the weighted average lead content of a product is provided in Annex I-1.	See Result 1	Pass

Remark:
1.N/A = Not applicable.

Result 1:
With reference to US EPA Method 3050B:1996, analysis was performed by AAS, ICP-OES.

No.	Part Description	Part #	Quantity per assembly	Material	Supplier	Supplier Contact: Phone No. & email	NSF 61 Certificate (*)		Water Contact Area in.²	Wetted Surface	% Lead Content in material	% Weighted Lead Content	Recognized Lab Findings % Lead Content in Material
							Yes	No					
1	suction nozzle	1	1	silicon rubber+ TPE	WUYI SONIU HOUSEWARE CO.,LTD.	Messi yuan: 17855872721; 215563479@qq.com		√	3.255	0.91	0.0000	0.0000	/
2	seal of nozzle	2	1	silicon rubber	WUYI SONIU HOUSEWARE CO.,LTD.	Messi yuan: 17855872721; 215563479@qq.com		√	0.438	0.12	0.0000	0.0000	/
3	bottle cap	3	1	PP	WUYI SONIU HOUSEWARE CO.,LTD.	Messi yuan: 17855872721; 215563479@qq.com		√	16.743	4.67	0.0000	0.0000	/
4	seal of cap	4	1	silicon rubber	WUYI SONIU HOUSEWARE CO.,LTD.	Messi yuan: 17855872721; 215563479@qq.com		√	1.314	0.37	0.0000	0.0000	/
5	inner ceramics coating	5	1	silica	WUYI SONIU HOUSEWA	Messi yuan: 17855872721;		√	78.437	21.87	0.0000	0.0000	/

No.	Part Description	Part #	Quantity per assembly	Material	Supplier	Supplier Contact: Phone No. & email	NSF 61 Certificate (*)		Water Contact Area in.²	Wetted Surface	% Lead Content in material	% Weighted Lead Content	Recognized Lab Findings % Lead Content in Material
							Yes	No					
					RE CO.,LTD.	215563479@qq.com							
6	connector	6	1	PP	SuZhou BTW precision machinery Co.,Ltd.	king, 18662338628; king@szbtw,net		√	154	42.94	0.0000	0.0000	/
7	joint	7	1	PP	SuZhou BTW precision machinery Co.,Ltd.	king, 18662338628; king@szbtw,net		√	31.4	8.76	0.0000	0.0000	/
8	seal of connector	8	1	silicon rubber	SuZhou BTW precision machinery Co.,Ltd.	king, 18662338628; king@szbtw,net		√	7.5	2.09	0.0000	0.0000	/
9	filter cap	9	1	PP	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	12.0515841	3.36	0.0000	0.0000	/

No.	Part Description	Part #	Quantity per assembly	Material	Supplier	Supplier Contact: Phone No. & email	NSF 61 Certificate (*)		Water Contact Area in.²	Wetted Surface	% Lead Content in material	% Weighted Lead Content	Recognized Lab Findings % Lead Content in Material
							Yes	No					
10	filter housing	10	1	PETG	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	19.42184884	5.42	0.0000	0.0000	/
11	straw	11	1	PP	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	9.305288611	2.59	0.0000	0.0000	/
12	oring	12	1	silicon rubber	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	0.321256743	0.09	0.0000	0.0000	/
13	carbon fiber filter	13	1	activiated carbon fiber	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	13.92670035	3.88	0.0000	0.0000	/
14	filter core tube	14	1	PP	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	5.054048608	1.41	0.0000	0.0000	/
15	filter upper cap	15	1	PP	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	3.083126666	0.86	0.0000	0.0000	/

SGS

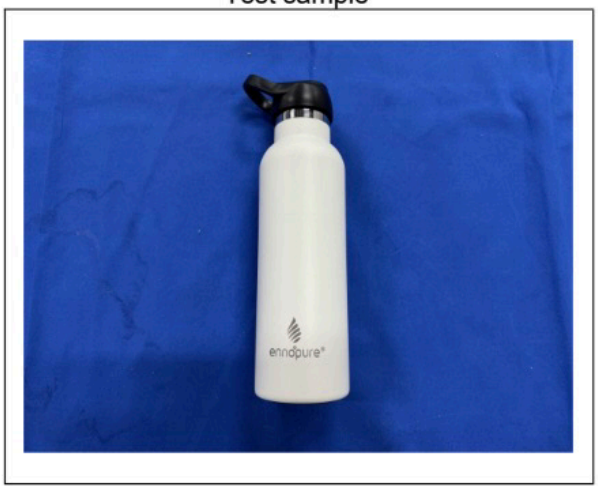
No.	Part Description	Part #	Quantity per assembly	Material	Supplier	Supplier Contact: Phone No. & email	NSF 61 Certificate (*)		Water Contact Area in.²	Wetted Surface	% Lead Content in material	% Weighted Lead Content	Recognized Lab Findings % Lead Content in Material
							Yes	No					
					iaMen)Co., Ltd.	ceo@joypure.com							
16	filter bottom cap	16	1	PP	Gihoku getechno(XiaMen)Co., Ltd.	JiangYongfeng, 13950073459 ; ceo@joypure.com		√	2.350734701	0.66	0.0000	0.0000	/
												0.0000	≤0.25

Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance (w = 0, $AL = TL$).
   Statements of conformity are reported as:
   Passed - The measured values were observed in tolerance at the points tested.
   Failed - One or more measured values were observed out of tolerance at the points tested.

Sample Photo:

Test sample



SGS authenticate the photo on original report only

End of Report

Test Report

No.: SHAAF24011407601_2 **Date:** Jun 14, 2024

Client Name: EnnoPure,Inc.

Client Address: 1153 Tasmna Dr，Sunnyvale，CA 94089

Sample Name: suction nozzle

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAAF24011407601_1, DATE: Jun 12, 2024.

SGS Job No.: O-NBAFL202401086876 ASH24-0035473

Sample Receiving Date: May 29, 2024

Testing Period: May 29, 2024 ~ Jun 04, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

	Test Requirement	Comment
1	US FDA 21 CFR 177.1810 - Extractable fraction	Pass
2	US FDA 21 CFR 177.1810 - Solubility in toluene	Pass

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

Sue Sheng

Approved Signatory

Scan to see the report

SHAAF24011407601_2

Verification:
check.sgsonline.com.cn

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	SHA24-0114076-0001.C001	Black solid	Styrene Block Polymers

Remarks:

(1) mg/dm^2 = milligram per square decimeter
$mg/inch^2$ = milligram per square inches
$\mu g/cm^2$ = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram

(2) ℃ = degree Celsius
℉ = degree Fahrenheit

(3) <= less than

(4) RL = Reporting Limit

(5) ND = Not Detected (< RL).

US FDA 21 CFR 177.1810 - Extractable fraction

Test Method: With reference to US FDA 21 CFR 177.1810.

Simulant used	Test Condition	Limit	Unit(s)	RL	A1	Comment
50% Ethanol	150℉, 2 hrs	0.01	$mg/inch^2$	0.01	ND	Pass
Distilled water	Reflux Temperature, 2 hrs	0.01	$mg/inch^2$	0.01	ND	Pass

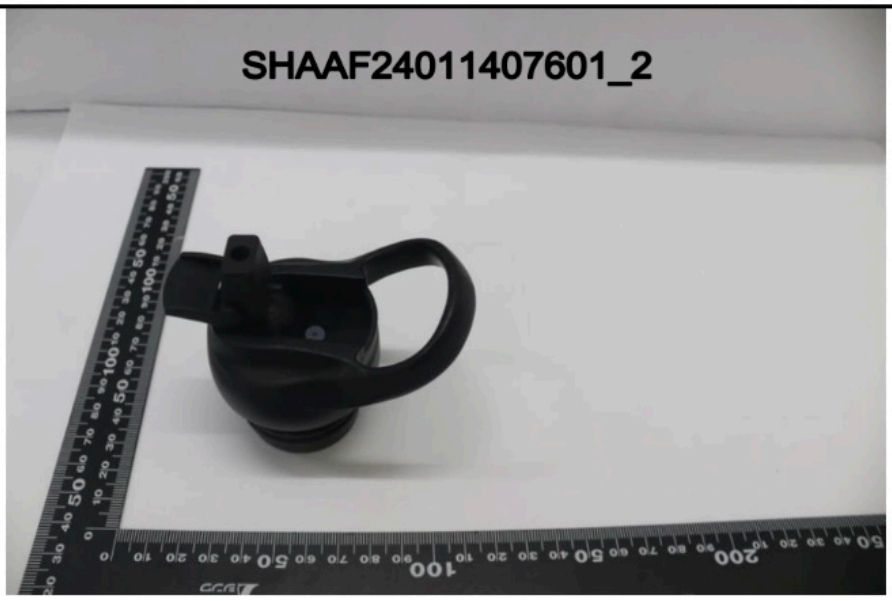
US FDA 21 CFR 177.1810 - Solubility in toluene

Test Method: With reference to US FDA 21 CFR 177.1810.

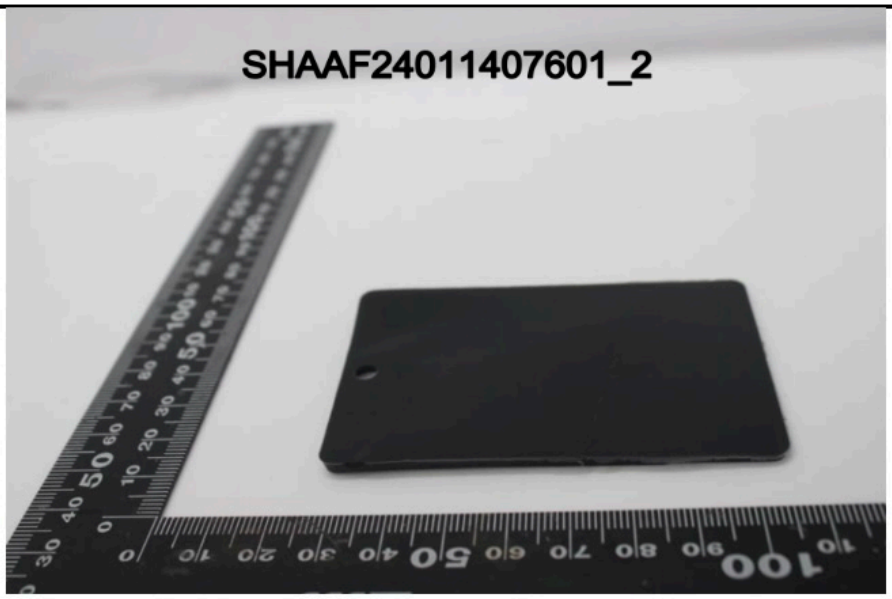
Test Item(s)	Limit	A1
Solubility in Boiling Toluene	Completely soluble in toluene	Dissolved
Comment		**Pass**

This report updates Test Requirement, Sample Photo.
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:



SHA24-0114076



SHA24-0114076-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***