

ELEMENT ASIA LIMITED  
UNIT C, 18/F., MAI WAH IND, BLDG., 1-7 WAH SING ST., KWAI CHUNG, HONG KONG

Sample Description : 4 ASSORTED TOOL SET, INCLUDING TURNER, TONGS,  
FORK AND BASTING BRUSH  
Item No. : G23335  
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.

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SGS Ref No. : CANHG2220559801  
Sample Receiving Date : Sep 23, 2022  
Test Performing Date : Sep 23, 2022 to Oct 13, 2022  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)

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



Kitty Kang  
Authorized Signatory

scan to see the report



SDHL2209019336OT



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**Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments
1	FDA 21 CFR 175.300–Total extractive residues	PASS	/
	FDA 21 CFR 177.1500–Maximum extractable fraction	PASS	/
	FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane	PASS	/
	US California Proposition 65- Specific migration of 4,4'-Methylenedianiline (4,4'-MDA)	PASS	/
	US FDA Generally Recognized As Safe (GRAS) Specifications and US CBA recommended specification – Stainless steel composition	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 177.1500–Specific gravity at 23°C	PASS	/
	FDA 21 CFR 177.1500–Melting Point	PASS	/
	FDA 21 CFR 177.1500–Solubility in boiling 4.2N HCl	PASS	/
	FDA 21 CFR 177.1520–Density at 23°C	PASS	/
	FDA 21 CFR 177.1520–Melting Point	PASS	/

For further details, please refer to the following page(s)



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN22-205598.001	Silvery metal part	Stainless steel(SUS430)
SN2	CAN22-205598.002	Translucent plastic grain (2#)	PP
SN3	CAN22-205598.003	Black plastic part	PP
SN4	CAN22-205598.004	Translucent plastic grain (4#)	PA66
SN5	CAN22-205598.005	White plastic part	PA66

**FDA 21 CFR 175.300–Total extractive residues**

Test Method : With reference to US FDA 21 CFR 175.300.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Total extractive residues</u>	<u>Comment</u>
8% Ethanol	2.0hr(s)	150°F	18mg/inch <sup>2</sup>	<1mg/inch <sup>2</sup>	PASS
n-Heptane	2.0hr(s)	150°F	18mg/inch <sup>2</sup>	<1mg/inch <sup>2</sup>	PASS
Distilled Water	2.0 hr(s)	250°F	18mg/inch <sup>2</sup>	<1mg/inch <sup>2</sup>	PASS

Notes :

mg/inch<sup>2</sup>= milligram per square inch



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**FDA 21 CFR 177.1500–Maximum extractable fraction**

Test Method : With reference to US FDA 21 CFR 177.1500.

<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	8hr(s)	Reflux temperature	1.5%(w/w)	0.17%(w/w)	PASS
Ethyl Acetate	8hr(s)	Reflux temperature	0.2%(w/w)	0.11%(w/w)	PASS
95% Ethyl Alcohol	8hr(s)	Reflux temperature	1.5%(w/w)	0.08%(w/w)	PASS
Benzene	8hr(s)	Reflux temperature	0.2%(w/w)	<0.05%(w/w)	PASS

Notes :

- 1. %w/w = percentage of weight by weight

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

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

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003</u>	<u>Comment</u>
n-Hexane	2hr(s)	Reflux temperature	6.4%(w/w)	0.6%(w/w)	PASS

Notes :

- %w/w = percentage of weight by weight



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**US California Proposition 65- Specific migration of 4,4'-Methylenedianiline (4,4'-MDA)**

Test Method : With reference to EN 13130-1: 2004, analysis was performed by LC-MS-MS.

**Sample 005**

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 100°C 2.0hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
4,4'-Methylenedianiline(4,4-MDA)	10	µg/L	2	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. µg/L= microgramme/liter
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
- 5.The limit is referenced to the 4,4'-MDA requirement as stated in the Country of Alameda Court, Case No. RG14750998.

Remark: Test condition & simulant were specified by client.

Remark: The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.



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**US FDA Generally Recognized As Safe (GRAS) Specifications and US CBA recommended specification – Stainless steel composition**

Test Method : a. For Chromium, Nickel, Manganese, Silicon and Phosphorus content: Acid digestion. Analysis was performed by ICP-OES.  
 b. For Carbon and Sulfur content: ASTM E1019-18

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
C	0.12	%(w/w)	-	0.05
S	0.030	%(w/w)	0.001	ND
Si	1	%(w/w)	0.010	0.352
Cr	16-18	%(w/w)	0.01	16.56
Mn	1	%(w/w)	0.010	0.448
Ni	0.75	%(w/w)	0.010	0.082
P	0.040	%(w/w)	0.0100	0.0200
<b>Comment</b>				<b>PASS</b>

Notes :

1. % w/w = percentage of weight by weight
2. ND = Not Detected
3. "-" = Not Applicable
4. AISI 430 Specification is quoted from US The Cookware & Bakeware Alliance (CBA) – Engineering Standards for Cookware and Bakeware.
5. These tests of C ,S & N were subcontracted to SGS Shanghai lab.

**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>001</u>
Total Chromium	≥16	%(w/w)	0.01	16.94
<b>Comment</b>				<b>PASS</b>

Notes :

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



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**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>003</u>
Soluble fraction in Xylene	9.8	%(w/w)	0.5	5.8
<b>Comment</b>				<b>PASS</b>

Notes :

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

**FDA 21 CFR 177.1500–Specific gravity at 23°C**

Test Method : With reference to US FDA 21 CFR 177.1500.

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Specific gravity at 23°C	1.125~1.155	1.126
<b>Comment</b>		<b>PASS</b>

**FDA 21 CFR 177.1500–Melting Point**

Test Method : With reference to US FDA 21 CFR 177.1500.

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Melting Point(°F)	475~495	487.4
<b>Comment</b>		<b>PASS</b>



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**FDA 21 CFR 177.1500–Solubility in boiling 4.2N HCl**

Test Method : With reference to US FDA 21 CFR 177.1500.

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Solubility in boiling 4.2N HCl,1hr	Dissolve in 1hour	Dissolve
<b>Comment</b>		<b>PASS</b>

**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>002</u>
Density at 23°C, g/ cm <sup>3</sup>	0.880-0.913	0.901
<b>Comment</b>		<b>PASS</b>

**FDA 21 CFR 177.1520–Melting Point**

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>002</u>
Melting Point, °C	160-180	168.5
<b>Comment</b>		<b>PASS</b>

Remark: Results and photo(s) of sample 002~005 in this report refer to sample 002~005 in test report CANHG2217901701.

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.



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### Photo Appendix:



CANHG2220559801

CAN22-205598.001





CANHG2220559801  
CAN22-205598.002



CANHG2220559801  
CAN22-205598.003





CANHG2220559801  
CAN22-205598.004



CANHG2220559801  
CAN22-205598.005

**Remark:** This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

\*\*\*End of Report\*\*\*

