

# Test Report

No.: SHAEC23006873401

Date: Jul 10, 2023

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Client Name: LEFOO INDUSTRIAL CO.,LTD

Client Address: NO.118 Changda Road, Linping Street, Linping District, Hangzhou City, Zhejiang Province

Sample Name: Brushless DC Pump

Model No.: LFP

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

SGS Job No.: SHP23-002963

Sample Receiving Date: May 25, 2023

Testing Period: May 25, 2023 ~ Jul 10, 2023

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	Stainless steel for food contact use in US - Total Chromium content	Pass
2	US FDA 21 CFR 177.1500 - Melting Point	Pass
3	US FDA 21 CFR 177.1500 - Solubility in Boiling 4.2N HCl	Pass
4	US FDA 21 CFR 177.1500 - Maximum Extractable Fraction	Pass
5	US FDA 21 CFR 177.2470 - Total Extractives	Pass
6	US FDA 21 CFR 177.2470 - Chloroform-Soluble Extractives	Pass
7	US FDA 21 CFR 177.2600 - Total Extractives	Pass
8	US FDA CPG Sec.545.400 and CPG Sec 545.450 - Leachable Lead and Cadmium	Pass

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

Sue Sheng  
Approved Signatory

scan to see the report



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**Test Result(s):**

**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	SHA23-0068734-0001.C001	White solid	POM
SN2	A2	SHA23-0068734-0001.C002	White solid	Ceramic
SN3	A3	SHA23-0068734-0001.C003	Silvery metal	Stainless Steel
SN4	A4	SHA23-0068734-0001.C004	Black solid	PA6
SN5	A5	SHA23-0068734-0001.C005	Colorless translucent soft solid	Silicone Rubber

**Remarks:**

- (1) mg/dm<sup>2</sup> = milligram per square decimeter  
 μg/cm<sup>2</sup> = microgram per square centimeter  
 mg/L = milligram per litre  
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
- (3) <= less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

**Stainless steel for food contact use in US - Total Chromium content**

Test Method: Titration method.

Test Item(s)	Limit	Unit(s)	A3
Total Chromium	≥10.5	%	18.1
<b>Comment</b>			<b>Pass</b>

**US FDA 21 CFR 177.1500 - Melting Point**

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

Test Item(s)	Limit	Unit(s)	A4
Melting Point	392-446	°F	429.0
<b>Comment</b>			<b>Pass</b>

**Notes:**

These tests were subcontracted to SGS Ningbo Chemical Lab.

**US FDA 21 CFR 177.1500 - Solubility in Boiling 4.2N HCl**

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



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Test Item(s)	Limit	A4
Solubility in Boiling 4.2N HCl	Dissolves in 1 hour	Dissolved
<b>Comment</b>		<b>Pass</b>

## US FDA 21 CFR 177.1500 - Maximum Extractable Fraction

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

Simulant used	Test Condition	Limit	Unit(s)	RL	A4	Comment
95% Ethanol	Reflux Temperature, 8 hrs	2.0	%(w/w)	0.05	0.87	Pass
Benzene	Reflux Temperature, 8 hrs	1.0	%(w/w)	0.05	ND	Pass
Ethyl Acetate	Reflux Temperature, 8 hrs	1.0	%(w/w)	0.05	ND	Pass
Distilled water	Reflux Temperature, 8 hrs	1.0	%(w/w)	0.05	0.66	Pass

## US FDA 21 CFR 177.2470 - Total Extractives

Test Method: With reference to US FDA 21 CFR 177.2470.

Simulant used	Test Condition	Limit	Unit(s)	RL	A1	Comment
n-Heptane	Reflux Temperature, 6 hrs	0.15	%(w/w)	0.05	0.09	Pass
Distilled water	Reflux Temperature, 6 hrs	0.20	%(w/w)	0.05	ND	Pass

## US FDA 21 CFR 177.2470 - Chloroform-Soluble Extractives

Test Method: With reference to US FDA 21 CFR 177.2470.

Simulant used	Test Condition	Limit	Unit(s)	RL	A1	Comment
Distilled water	120°F, 24 hrs	0.5	mg/inch <sup>2</sup>	0.2	ND	Pass

## US FDA 21 CFR 177.2600 - Total Extractives

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

Simulant used	Test Condition	Limit	Unit(s)	RL	A5	Comment
Distilled water	Reflux Temperature 7.0 hrs	20	mg/inch <sup>2</sup>	0.5	ND	Pass
Distilled water Succeeding extraction	Reflux Temperature 2.0 hrs	1	mg/inch <sup>2</sup>	0.5	ND	Pass



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**US FDA CPG Sec.545.400 and CPG Sec 545.450 - Leachable Lead and Cadmium**

Test Method: With reference to AOAC 18<sup>th</sup> Ed. (2005) Section 973.32, analysis was performed by AAS/ICP-OES.

**A2 Flatware Pass**

	Extract volume (mL)
1	13
2	13
3	13
4	13
5	13
6	13

	Leachable Lead (µg/mL)	Leachable Cadmium (µg/mL)
1	<0.05	<0.01
2	<0.05	<0.01
3	<0.05	<0.01
4	<0.05	<0.01
5	<0.05	<0.01
6	<0.05	<0.01
Avg	<0.05	<0.01
Limit	3.0	0.5

**Notes:**

Flatware-Articles which cannot be filled and articles which can be filled, the internal depth of which does not exceed 25 mm.  
 Small Hollowware-Articles which can be filled with the internal depth of which exceed 25 mm and capacity of less than 1.1 liter.  
 Large Hollowware-Articles which can be filled with the internal depth of which exceed 25 mm and capacity of 1.1 liter or more.  
 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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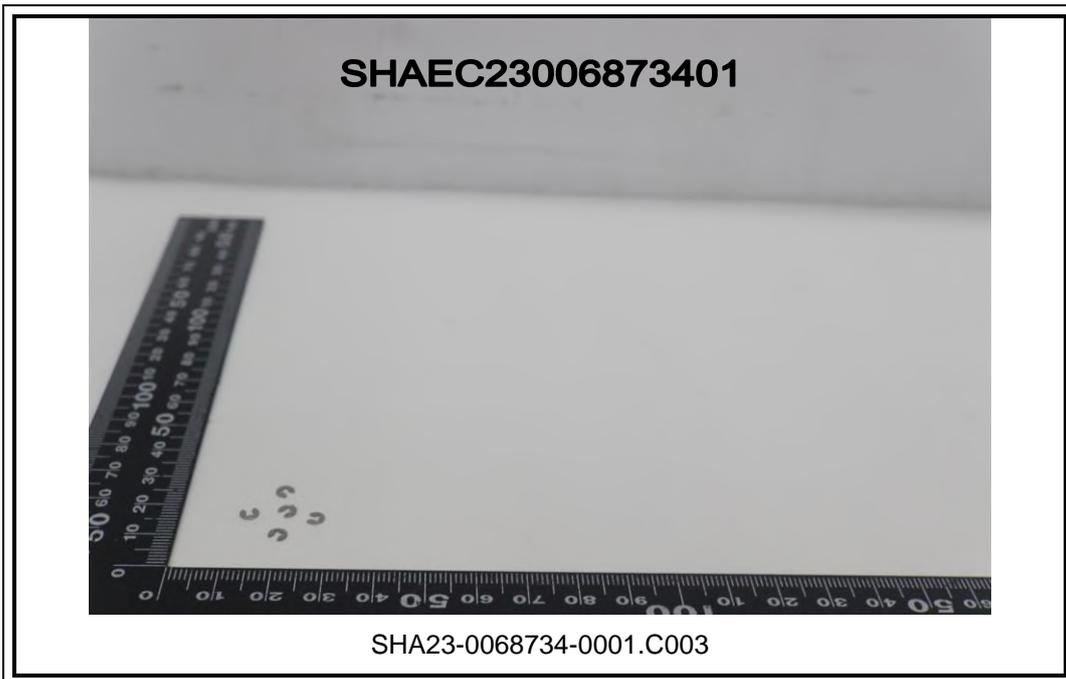
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