



# TEST REPORT

Report No.: STSGZ2312293025E

Date: 19-Jan-2024

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**Applicant :** Zhenghe (Guangzhou) Technology Innovation Co., Ltd.  
**Address:** A03, Room 603, No. 27 Huanshi Avenue Middle, Nansha District, Guangzhou, Guangdong Province

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

**Sample Name:** Water Purifier  
**Model/Style/Item #:** WP-RO-200G, WP-RO-200G-W-DE, WP-RO-200G-B-DE, WP-RO-300G, WP-RO-400G, WP-RO-400GDM, WP-RO-500G, WP-RO-600G, WP-RO-800G, WP-RO-GY-800G, WP-RO-1000G, WP-RO-1200G, WP-RO-1500G, WP-RO-50G, WP-RO-75G, WP-RO-90G, WP-RO-100G, WP-RO-125G, WP-RO-150G, WP-RO\*01, WP-CF\*1, WP-RO, WP-CF, WP-RO-1600G, ER-02-800G, WP-RO-MATE0, WP-RO-MATE1, WP-RO-MATE2, WP-RO-MATE3, WP-RO-MATE4, WP-RO-MATE5  
**Supplier/Manufacturer:** Emate (Shanghai) Environmental Technology Co., Ltd.  
**Supplier/Manufacturer Address:** Buildings 1 and 2, No. 655, Huacai Road, Huaxin Industrial Park, Qingpu District, Shanghai  
**Receiving Date:** 29-Dec-2023  
**Test Period:** From 29-Dec-2023 to 11-Jan-2024  
**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS )	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

\*\*\*\*\*

Signed for and on behalf of STS

Mark Mai  
(Technical Director)



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## Result:

### 1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	White plastic,filter element shell	BL	BL	BL	BL	BL
2	Matt-white plastic,stopper	BL	BL	BL	BL	BL
3	Matt-white plastic,valve	BL	BL	BL	BL	BL
4	Transparent plastic,water tank	BL	BL	BL	BL	BL
5	White plastic,tube	BL	BL	BL	BL	BL
6	Translucent soft plastic,seal ring	BL	BL	BL	BL	BL
7	Transparent soft plastic,tube	BL	BL	BL	BL	BL
8	Silvery metal,heating plate	BL	BL	BL	BL	NA
9	Black plastic,water tank cover	BL	BL	BL	BL	BL
10	Black plastic,shell	BL	BL	BL	BL	BL
11	Laminate black printed silvery plastic,sticker	BL	BL	BL	BL	BL
12	White coating,kettle	BL	BL	BL	BL	BL
13	Transparent glass,kettle	BL	BL	BL	BL	NA
14	Bright black plastic,kettle base	BL	BL	BL	BL	BL
15	Silvery metal,heating tube	BL	BL	BL	BL	NA
16	Silvery metal,heating wire	BL	BL	BL	BL	NA
17	Pink coating,holder	BL	BL	BL	BL	BL
18	Silvery metal,shell	BL	BL	BL	BL	NA
19	Silvery metal,long screw	BL	BL	BL	X	NA
20	Silvery metal,short screw	BL	BL	BL	X	NA
21	Silvery metal,round head screw	BL	BL	BL	X	NA
22	Silvery metal,spring	BL	BL	BL	X	NA
23	Silvery metal,nut	BL	BL	BL	BL	NA

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24	Silvery metal,clamp	BL	BL	BL	BL	NA
25	Silvery metal,pin	BL	BL	BL	BL	NA
26	Silvery metal,contact plate	BL	BL	BL	BL	NA
27	White textile,wire cover	BL	BL	BL	BL	BL
28	Blue textile,wire cover	BL	BL	BL	BL	BL
29	Red textile,wire cover	BL	BL	BL	BL	BL
30	Black printed white soft plastic,wire jacket	BL	BL	BL	BL	BL
31	Silvery metal,wire core	BL	BL	BL	BL	NA
32	Silvery metal,base	BL	BL	BL	BL	NA
33	Matt-silvery metal,plate	BL	BL	BL	X	NA
34	White ceramic,contactor holder	BL	BL	BL	BL	NA
35	Silvery metal,contactor	BL	BL	BL	BL	NA
36	Golden metal,contact plate	BL	BL	BL	BL	NA
37	Coppery metal,contact plate	BL	BL	BL	BL	NA
38	Silvery plated coppery metal,contactor	BL	BL	BL	BL	NA
39	Black plastic,cover	BL	BL	BL	BL	BL
40	White ceramic,plate	X	BL	BL	BL	NA
41	Golden metal,plate	BL	BL	BL	BL	NA
42	Silvery metal,lead	BL	BL	BL	BL	NA
43	Yellow plastic,port	BL	BL	BL	BL	BL
44	White plastic,port	BL	BL	BL	BL	BL
45	Blue plastic,port	BL	BL	BL	BL	BL
46	Red plastic,port	BL	BL	BL	BL	BL
47	Silvery metal,small pin	BL	BL	BL	BL	NA
48	Green PCB	BL	BL	BL	BL	X
49	Silvery metal,solder	BL	BL	BL	BL	NA
50	Translucent soft plastic,ring	BL	BL	BL	BL	BL
51	Transparent soft plastic,cover	BL	BL	BL	BL	BL
52	Black printed red soft plastic,wire jacket(thick)	BL	BL	BL	BL	BL

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53	White printed black soft plastic,wire jacket(thick)	BL	BL	BL	BL	BL
54	Black printed red soft plastic,wire jacket	BL	BL	BL	BL	BL
55	Black printed white soft plastic,wire jacket(thin)	BL	BL	BL	BL	BL
56	White printed brown soft plastic,wire jacket	BL	BL	BL	BL	BL
57	Silvery metal,magnet	BL	BL	BL	BL	NA
58	Translucent white plastic,holder	BL	BL	BL	BL	BL
59	White plastic,holder	BL	BL	BL	BL	BL
60	Transparent black plastic with white coating,touch panel	BL	BL	BL	BL	BL
61	Green PCB	BL	BL	BL	BL	X
62	Silvery metal,solder	BL	BL	BL	BL	NA
63	Transparent black plastic,pot lid	BL	BL	BL	BL	BL
64	Transparent plastic,pot lid	BL	BL	BL	BL	BL
65	White plastic,base	BL	BL	BL	BL	BL
66	Matt-black plastic,pump holder	BL	BL	BL	BL	BL
67	Laminate multicolor printed silvery plastic,sticker	BL	BL	BL	BL	BL
68	Silvery metal,pump shell	BL	BL	BL	BL	NA
69	Black soft plastic,cushion	BL	BL	BL	BL	BL
70	Silvery metal,pin	X	BL	BL	BL	NA
71	Black soft plastic,plug	BL	BL	BL	BL	BL
72	Black soft plastic,wire cover	BL	BL	BL	BL	BL
73	Black plastic,adapter shell	BL	BL	BL	BL	BL

Remark:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$

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Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X	--	BL≤250-3σ< X

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863 :

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenyl ethers (PBDEs)	1000

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- (5) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.

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## 1.2 Hexavalent Chromium (Cr(VI))

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis

Compound		Material				Limit	RL
		19	20	21	22		
1	Hexavalent Chromium (Cr(VI))	Negative	Negative	Negative	Negative	#	-
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material		Limit	RL
		33			
1	Hexavalent Chromium (Cr(VI))	Negative		#	-
	<b>Conclusion</b>	<b>PASS</b>		-	-

Remark(s) (a) ug/cm<sup>2</sup>: microgram per square centimeter

(b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm<sup>2</sup>

Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm<sup>2</sup>

(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

## 1.3 Lead Content (Pb)

IEC62321-5:2013, acid digested and determined by AAS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		40	70		
1	Lead (Pb)	12570	14985	1000	10
	<b>Conclusion</b>	<b>PASS**</b>	<b>PASS*</b>	-	-

Remark(s): (a) \* = Copper alloy containing up to 4% lead by weight

(b) mg/kg: milligrams per kilogram

(c) RL: Report limit

(d) N.D.: Not detected (result is less than RL)

(e) \*\*= Lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound.

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## 1.4 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	48	61		
1 Monobromo biphenyl	N.D.	N.D.	-	50
2 Dibromo biphenyl	N.D.	N.D.	-	50
3 Tribromo biphenyl	N.D.	N.D.	-	50
4 Tetrabromo biphenyl	N.D.	N.D.	-	50
5 Pentabromo biphenyl	N.D.	N.D.	-	50
6 Hexabromo biphenyl	N.D.	N.D.	-	50
7 Heptabromo biphenyl	N.D.	N.D.	-	50
8 Octabromo biphenyl	N.D.	N.D.	-	50
9 Nonabromo biphenyl	N.D.	N.D.	-	50
10 Decabromo biphenyl	N.D.	N.D.	-	50
11 Monobromo diphenyl ether	N.D.	N.D.	-	50
12 Dibromo diphenyl ether	N.D.	N.D.	-	50
13 Tribromo diphenyl ether	N.D.	N.D.	-	50
14 Tetrabromo diphenyl ether	N.D.	N.D.	-	50
15 Pentabromo diphenyl ether	N.D.	N.D.	-	50
16 Hexabromo diphenyl ether	N.D.	N.D.	-	50
17 Heptabromo diphenyl ether	N.D.	N.D.	-	50
18 Octabromo diphenyl ether	N.D.	N.D.	-	50
19 Nonabromo diphenyl ether	N.D.	N.D.	-	50
20 Decabromo diphenyl ether	N.D.	N.D.	-	50
21 Sum of PBBs	N.D.	N.D.	1000	-

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22	Sum of PBDEs	N.D.	N.D.	1000	-
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 1.5 Phthalates – (DBP, BBP, DEHP, DIBP) IEC 62321-8:2017, Solvent extract and determined by GC/MS

Compound			Material				Limit (%)	RL(%)
			1+2+3	4+5	6+7	9+10		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound			Material				Limit (%)	RL(%)
			11	12+17	14	27+28+29		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound			Material				Limit (%)	RL(%)
			30	39+43	44+45+46	48		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound			Material				Limit (%)	RL(%)
			50+51	52+53	54+55+56	58+59		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound			Material				Limit (%)	RL(%)
			60	61	63+64+65	66+73		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound			Material			Limit (%)	RL(%)
			67	69	71+72		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	0.1	0.005

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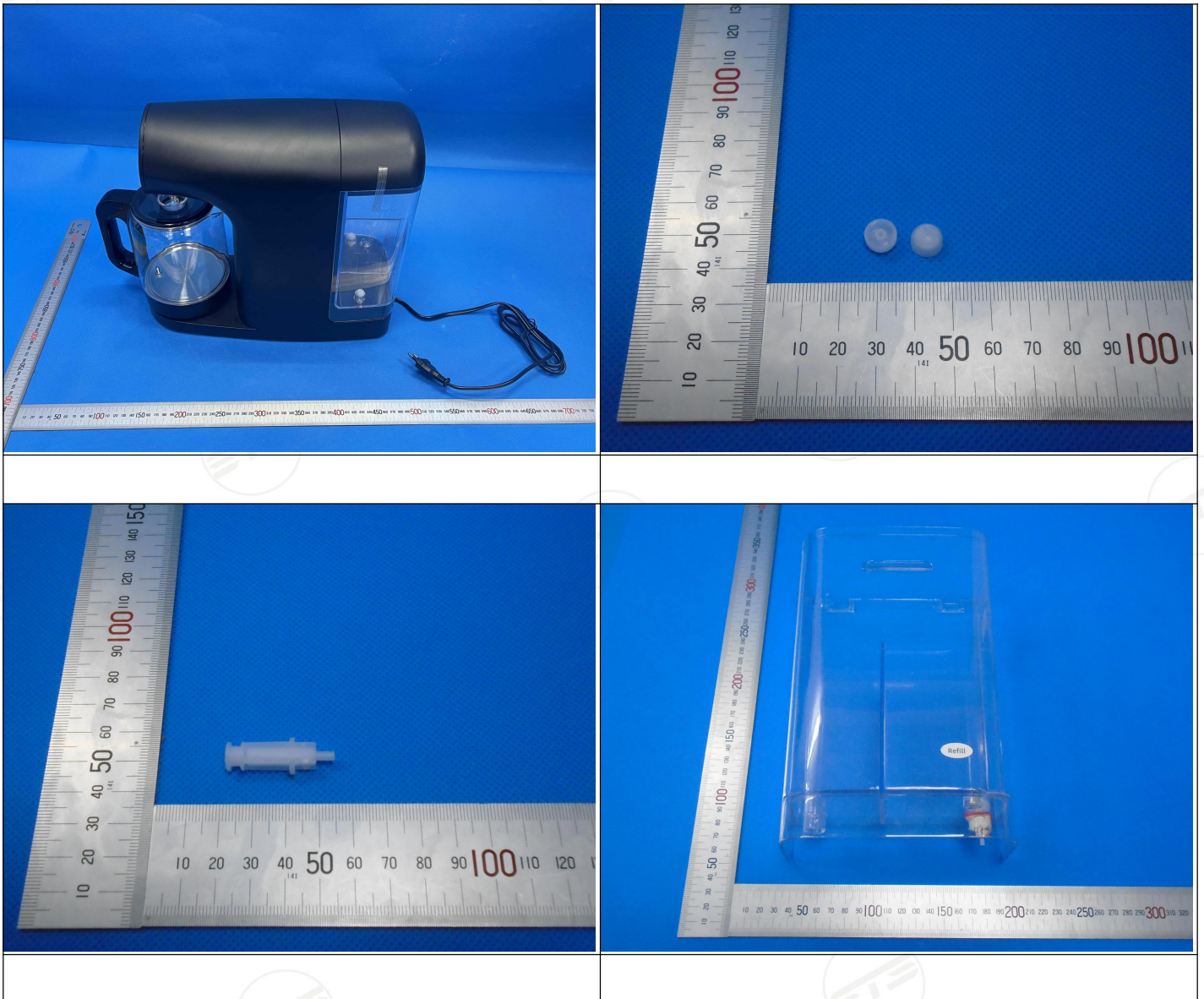
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4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	0.1	0.005
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

## Photo(s):



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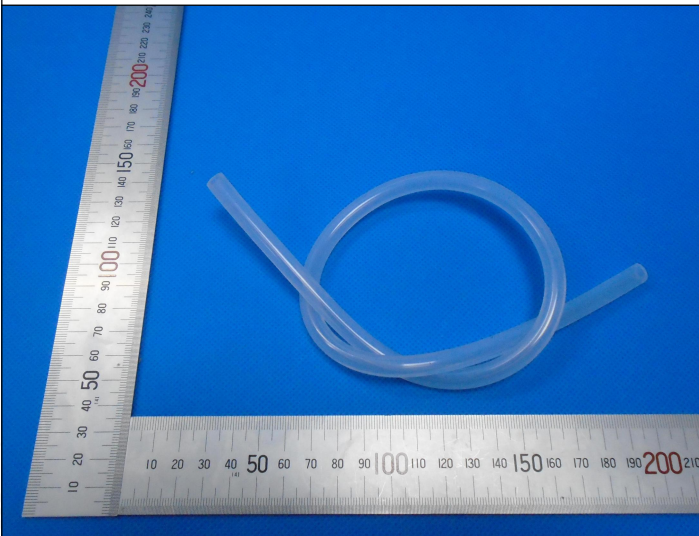
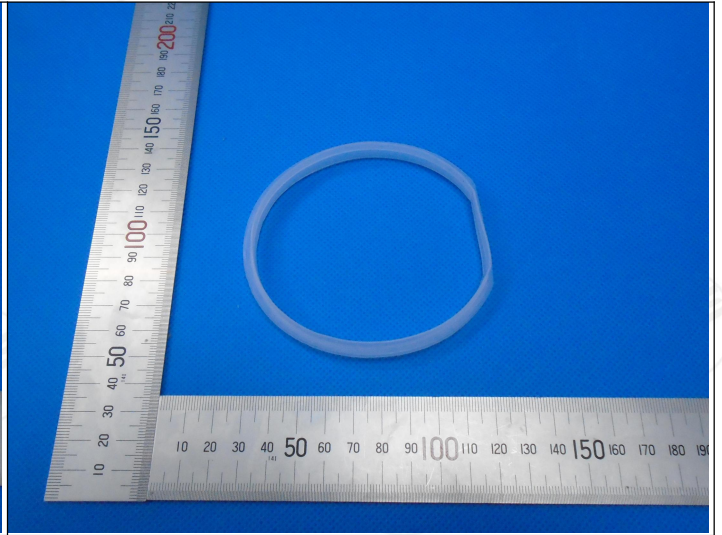
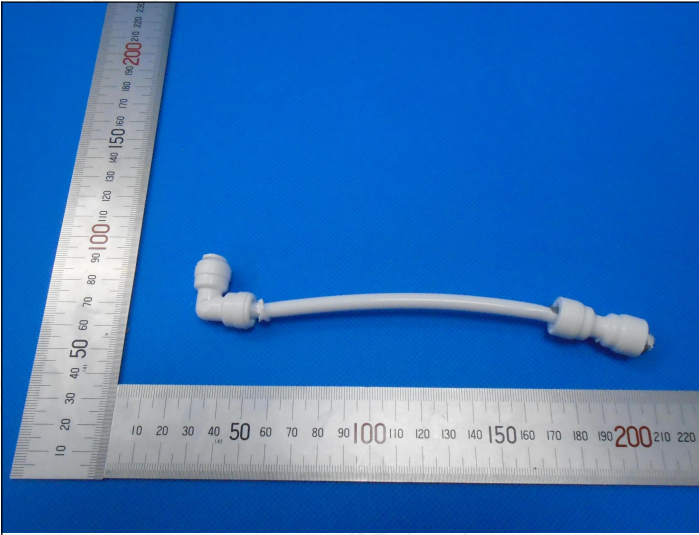


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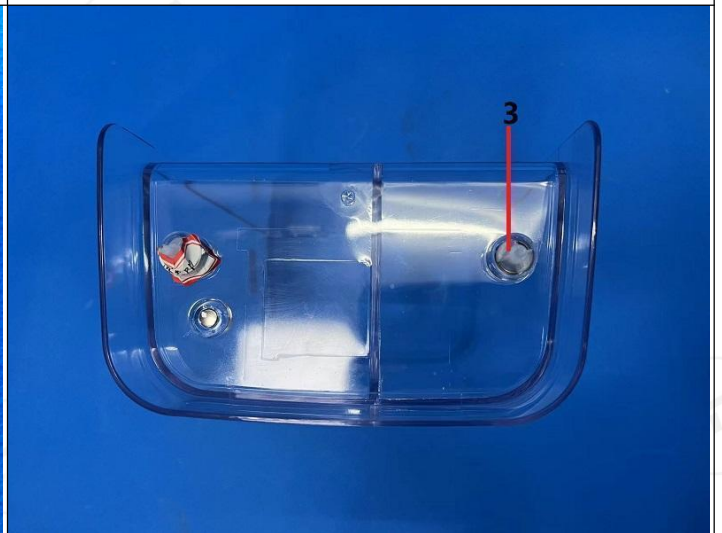
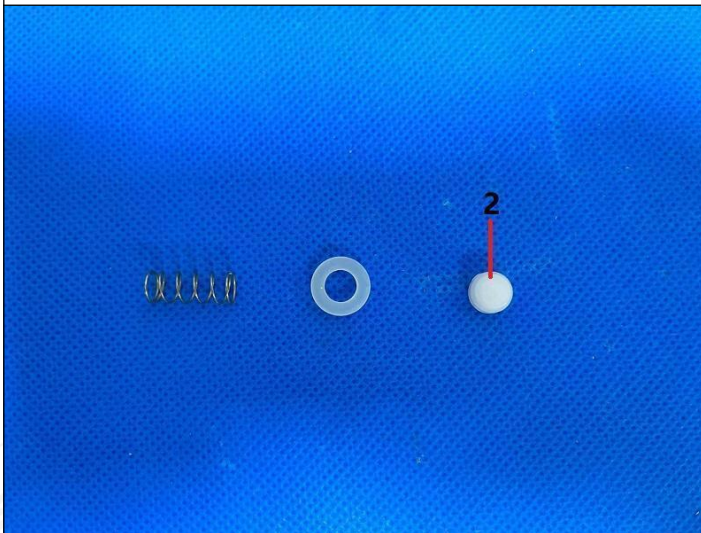


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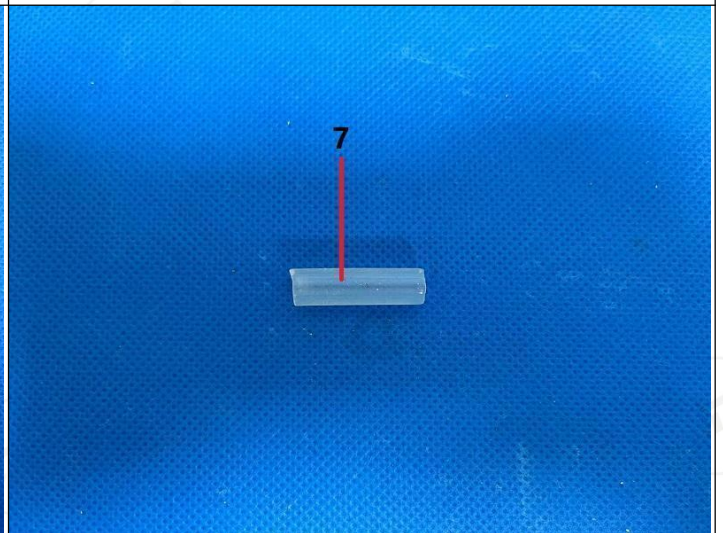
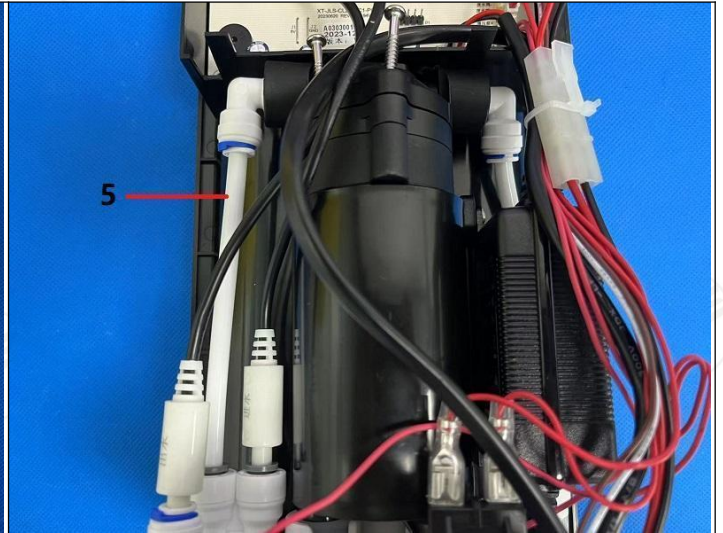
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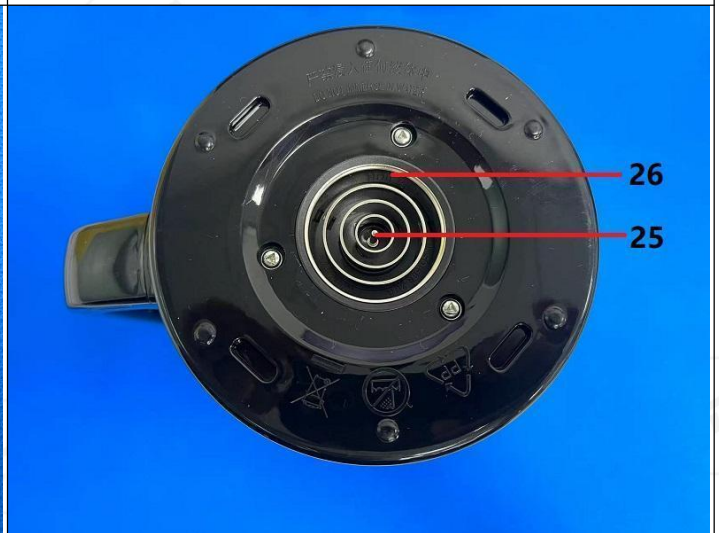
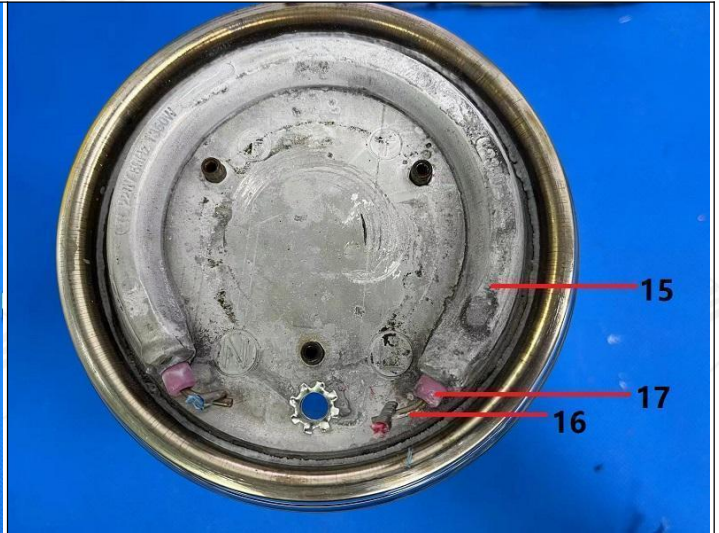
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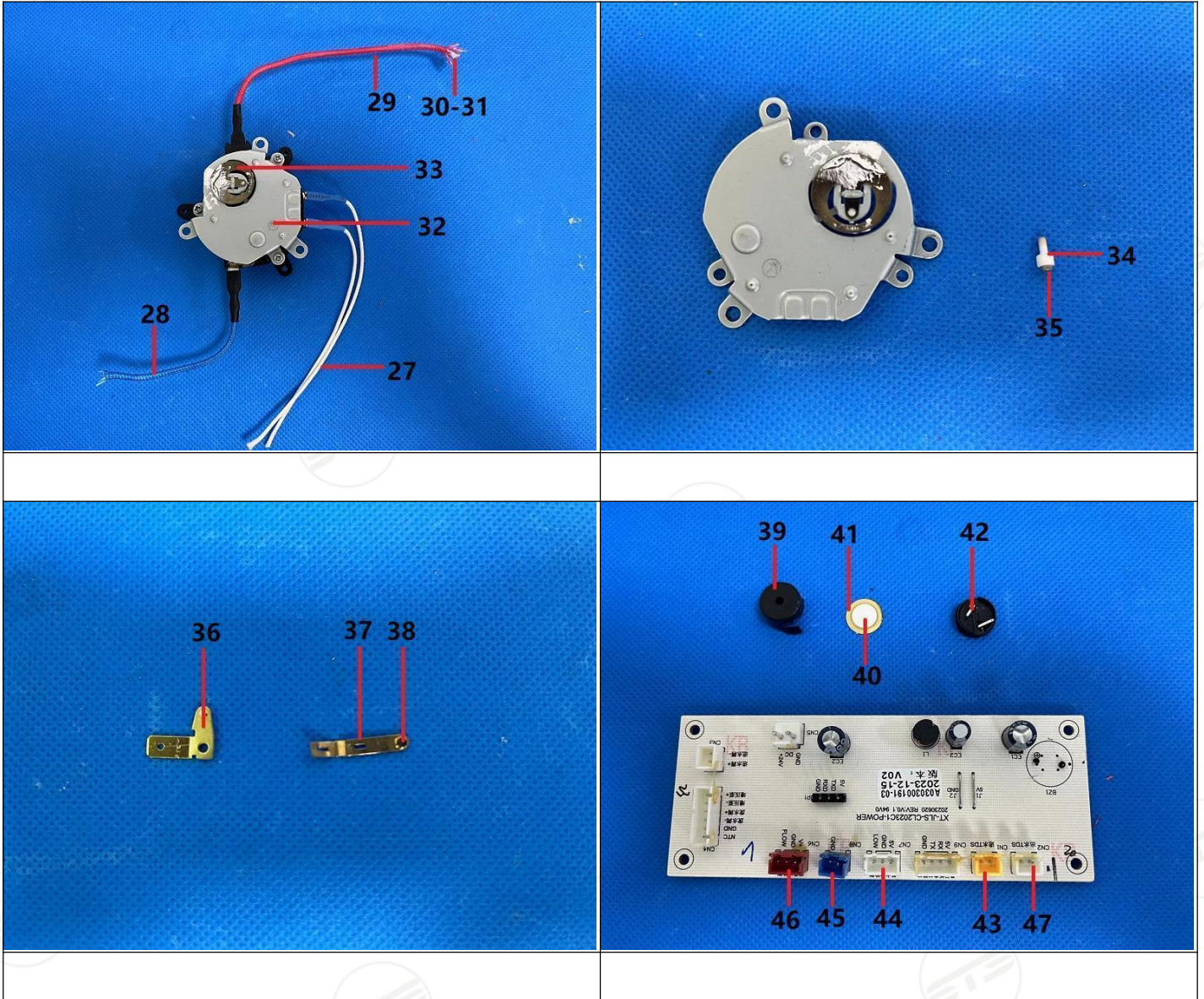


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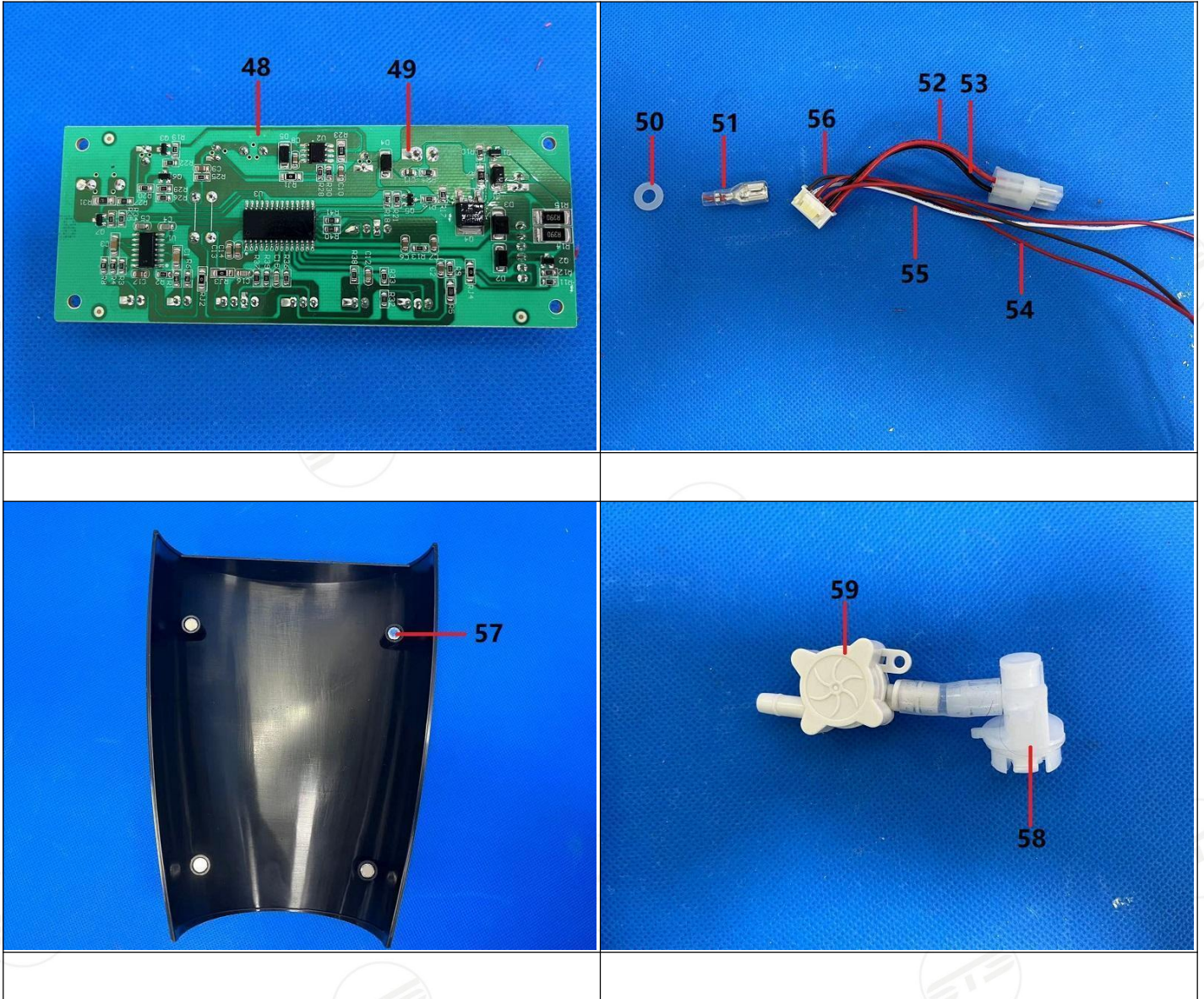


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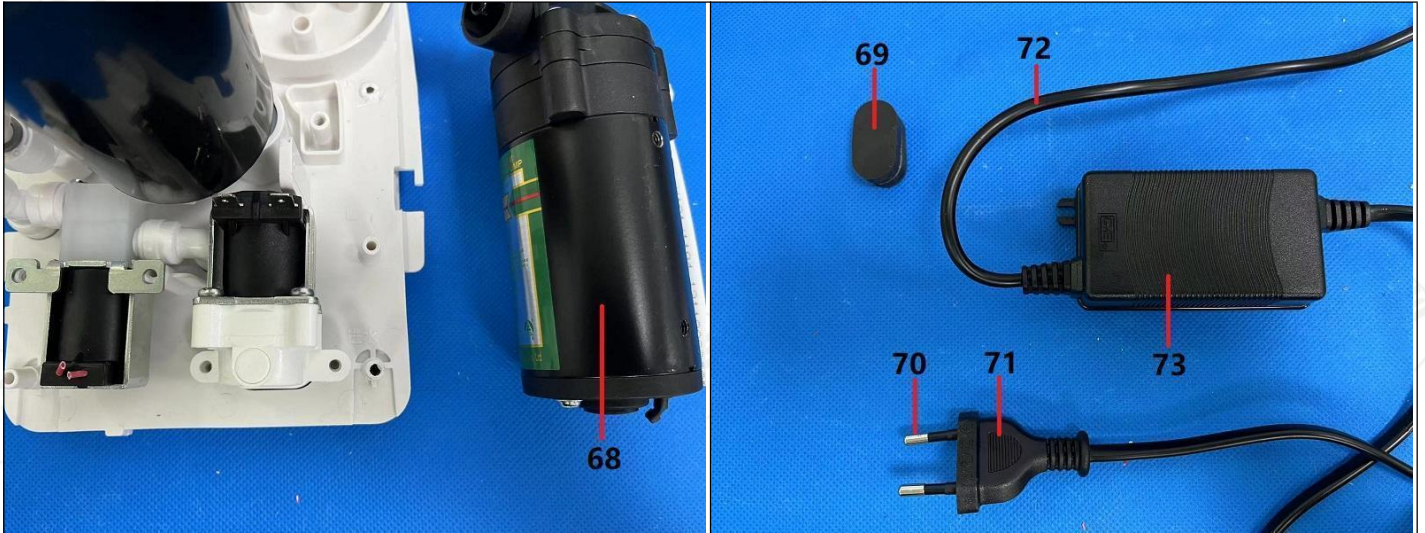


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Product Photo

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## 声明 Statement

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The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which STS shall bear no responsibilities.
2. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担相关责任。  
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6. 其它声明请查阅报告页脚及书面报告背页。  
For other statements, please refer to the footer of the report.

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# 签发测试报告条款

## Conditions of Issuance of Test Reports

1. 广州市德普华检测技术有限公司(以下简称[公司])为提供符合下述条款的测试和报告,而接受有关样品和货品。本公司基于下述条款提供服务,下述条款为本公司与申请服务的个人、企业或公司(以下简称[客户])的协议。

All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court order.
3. 除非相关部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。

The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。

The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。

In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。

Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. 如因使用本公司中心任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。

The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。

Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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