

Test Report

No. CANEC1917000501

Date: 03 Sep 2019

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DONG GUAN TN SILICONE TECHNOLOGY CO.,LTD

DONGAO INDUSTRIAL AREA TIANRAOBU VILLAGE HENGLI TOWN DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Liquid Silicone Rubber

SGS Job No. : CP19-047556 - SZ
 Model No. : LSR7160A/B
 Client Ref. Info. : LSR7XXXA/B LSR9XXXA/B
 Date of Sample Received : 28 Aug 2019
 Testing Period : 28 Aug 2019 - 03 Sep 2019
 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 177.2600–Total extractive residues	PASS

Conclusion : The tested parameters comply with the requirement stated in Food and Drug Administration Regulations.

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

Catty Gong

Catty Gong
 Approved Signatory



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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN19-170005.001	Colorless translucent silicone rubber	Silicone Rubber

FDA 21 CFR 177.2600–Total extractive residues

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

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001	Comment
Distilled Water	7.0hr(s)	Reflux temperature	20mg/sq. in	<0.5mg/sq. in	PASS
Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/sq. in	<0.5mg/sq. in	PASS
n-Hexane	7.0hr(s)	Reflux temperature	175mg/sq. in	11.2mg/sq. in	PASS
Succeeding Extraction	2.0hr(s)	Reflux temperature	4mg/sq. in	<0.5mg/sq. in	PASS

Notes :

mg/inch²= milligram per square inch



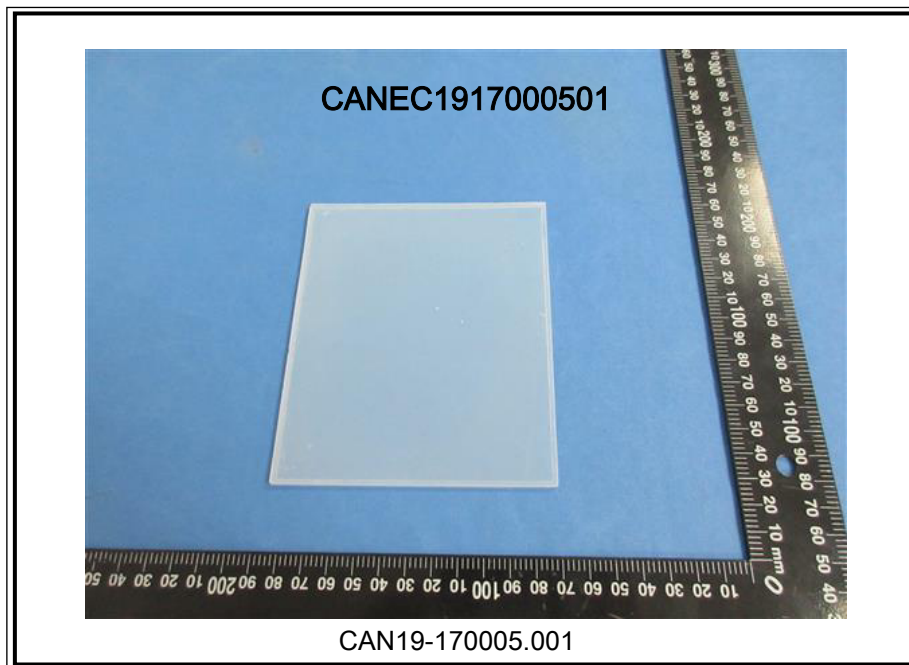
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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



SGS-CSTC 检验检测专用章
Guangzhou Branch Testing Center Chemical Laboratory

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TEST REPORT

On Behalf of

HONG KONG I-LOVE TECHNOLOGY GROUP CO.,LTD

360 intelligent fully automatic electric toothbrush

SA-VW-520, SA-VW-520I, SA-VW-520II, SA-VW-520Y, SA-VW-520B

Prepared for : HONG KONG I-LOVE TECHNOLOGY GROUP CO.,LTD
RM1005,10/F HO KING COMM CTR2-16 FA YUEN ST MONGKOK KL

Prepared By : World Standardization Certification & Testing Group Co., Ltd.
Building A-B, Baoshi Road, Baoshi Science & Technology Park,
Bao'an District, Shenzhen, Guangdong, China
TEL: 86-755-26996192; FAX: 86-755-86376605



Date of Test: June 8, 2018 to September 27, 2018

Date of Report: October 06, 2018

Report Number: WSCT-HA18100065A

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TEST REPORT

IEC 60335-2-52

Safety of household and similar electrical appliances
Part 2-52 : Particular requirements for oral hygiene appliances
and client entrust report

Report reference No : WSCT-HA18100065A

Tested by

(printed name and signature) : Jia Dong

Checked by

(printed name and signature) : Liu Haipeng

Approved by

(printed name and signature) : Wang Fengbin



Date of issue : October 06, 2018

Total number of pages : 41

Testing Laboratory Name : World Standardization Certification & Testing Group Co., Ltd.

Address : Building A-B, Baoshi Road, Baoshi Science & Technology Park, Bao'an District, Shenzhen, Guangdong, China

Address : Same as above.

Applicant's Name : HONG KONG I-LOVE TECHNOLOGY GROUP CO.,LTD

Address : RM1005,10/F HO KING COMM CTR2-16 FA YUEN ST MONGKOK KL

Test specification

Standard : IEC 60335-1: 2012+A1: 2013, IEC 60335-2-52:2002+A1:2008 Clause 5, 6, 7, 8,10 and client delegated test


Test item description : Test report

Manufacturer : Shenzhen i-love whitening technology CO.,LTD





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Address	Shifeng industrial Park Datianyang Xifang industrial Zone, Songgang Town, Baoan District, Shenzhen
Factory Name	Shenzhen Sure-Power Electrical CO.,LTD
Address	Building 35,Hongxing Xifang Ind. Zone,Datianyang Songyu Road,Songgang Town,Baoan District,Shenzhen,Guangdong,P.R.China
Trademark.....	SURE-POWER, S.T, V-WHITE
Model and/or type reference	SA-VW-520, SA-VW-520I, SA-VW-520II, SA-VW-520Y, SA-VW-520B
Rating.....	360 intelligent fully automatic electric toothbrush input: 5V  5W

List of Attachments:

Appendix I: Photo documentation

Appendix II: Equipment list

Test item particulars	--
Classification of installation and use	Portable appliance
Supply Connection	Appliance with external adapter
Possible test case verdicts:	--
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	June 8, 2018
Date (s) of performance of tests	June 8, 2018 to September 27, 2018





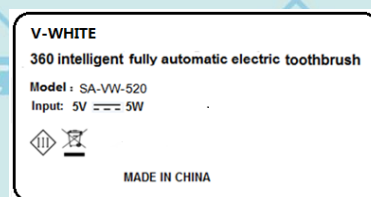
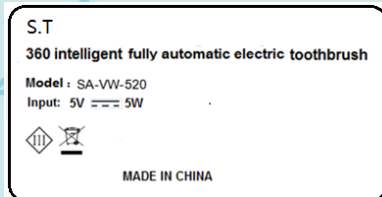
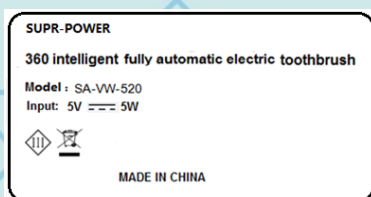
Model list:

NO.	Model No.	Input	
		Voltage	Power
1	SA-VW-520	5V	5W
2	SA-VW-520I	5V	5W
3	SA-VW-520II	5V	5W
4	SA-VW-520Y	5V	5W
5	SA-VW-520B	5V	5W

1. This report covers SA-VW-520, SA-VW-520I, SA-VW-520II, SA-VW-520Y, SA-VW-520B.
2. All models have similar constructions, similar circuit diagrams and PCB layouts, but with different models name.
3. All tests were conducted on model SA-VW-520 and additional to the test clause 10.1 on model SA-VW-520B, the test result was pass.

Copy of marking plate:

360 intelligent fully automatic electric toothbrush label:



The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective authorities that own these marks.



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		P
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
6	CLASSIFICATION		P
6.1	Protection against electric shock: Class 0, 0I, I, II, III..... :	Class III	P
	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part		P
6.2	Protection against harmful ingress of water		P
	Class II appliances is at least IPX7 except (IEC 60335-2-52)		N/A
	Those parts intended to be fixed, and transformers with pins for insertion into socket-outlets, is at least IPX4. (IEC 60335-2-52)		N/A
	Class III appliances is at least IPX4. Or (IEC 60335-2-52)		N/A
	If the rated voltage does not exceed 24V, they may be IPX0. (IEC 60335-2-52)		P
7	MARKING AND INSTRUCTIONS		P
7.1	Rated voltage or voltage range (V)	5V	P
	Symbol for nature of supply, or..... :	— —	P
	Rated frequency (Hz)		N/A
	Rated power input (W), or	5W	P
	Rated current (A)		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark	Trademark: SURE-POWER, S.T, V-WHITE	P



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
	Model or type reference..... :	SA-VW-520, SA-VW-520I, P SA-VW-520II, SA-VW-520Y, SA-VW-520B	
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0..... :	IPX0	N/A
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen		N/A
	Different rated values marked with the values separated by an oblique stroke		N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram		N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input or current are related to the arithmetic mean value of the rated voltage range		N/A
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		N/A
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		N/A
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict

	- marking of protective earthing terminals (symbol IEC 60417-5019)		N/A
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		N/A
7.9	Marking or placing of switches which may cause a hazard		N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means		P
	This applies also to switches which are part of a control		N/A
	If figures are used, the off position indicated by the figure 0		N/A
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		N/A
7.11	Indication for direction of adjustment of controls		N/A
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		P
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
	- children being supervised not to play with the appliance		N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		P
	it is a battery-operated appliance, the battery being charged outside the appliance		P
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
7.12.1	Sufficient details for installation supplied		N/A
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance		N/A
	Instructions for parts that have to be fixed must be fixed so that they cannot fall in to water, unless they are of IP X7 constructions (IEC 60335-2-52)		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		N/A
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		N/A
	Replacement cord instructions, type Z attachment		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water mains:		N/A
	- max. inlet water pressure (Pa) :		N/A
	- min. inlet water pressure, if necessary (Pa):		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		N/A
	These instructions may be supplied with the appliance separately from any functional use booklet		N/A
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		N/A
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		N/A
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD : :		N/A
7.13	Instructions and other texts in an official language		P



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
7.14	Markings clearly legible and durable:		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified:		P
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm:		N/A
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		N/A
	contrasting colours are used		N/A
	Markings checked by inspection, measurement and rubbing test as specified		N/A
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		N/A
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict

7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		P
8.1	Adequate protection against accidental contact with live parts		N/A
8.1.1	Requirement applies for all positions, detachable parts removed		N/A
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		N/A
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		N/A
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements or supporting parts		N/A



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IEC 60335-2-52

Clause	Requirement + Test	Result - Remark	Verdict
	For a single switching action obtained by a switching device, requirements as specified		N/A
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		N/A
8.1.4	Accessible part not considered live if:		P
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V		P
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μ F		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		N/A
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict

8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		N/A
	Only possible to touch parts separated from live parts by double or reinforced insulation		N/A
10	POWER INPUT AND CURRENT		P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 :	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		N/A



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IEC 60335-2-52			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:		P rated (W)	P measured (W)	Δ P	Required Δ P	Remark
For model: SA-VW-520						
5V	5	2.5	-50.0%	+20%		
For model: SA-VW-520B						
5V	5	2.5	-50.0%	+20%		
Supplementary information:						

10.2	TABLE: Current deviation					N/A
Current deviation of/at:	I rated (A)	I measured (A)	ΔI	Required ΔI	Remark	
Supplementary information:						

**Client entrust report (FFU test report)**

Item 1	Time test of brush your teeth
Test description: Test object were 108 humans Different kinds of toothbrushes, each time you brush your teeth is used different time, this project is mainly test 360 intelligent fully automatic electric toothbrush, manual toothbrush, ordinary electric toothbrush, total three kinds of toothbrushes, the same person is tested in the same degree of cleanliness, how long it take to clean the teeth, and then compare what kind of toothbrush works best in the shortest time.	
Test result: 1. You need 45S to clean your teeth use 360 intelligent fully automatic electric toothbrush one time. 2. You need 3mins to manual toothbrush one time. 3. You need 2mins to ordinary electric toothbrush one time.	
Conclusion: The 360 intelligent fully automatic electric toothbrush is best.	

Item 2	Intensity test of brushing your teeth
Test description: Test object were 108 humans The intensity of different kinds toothbrush is different, this project mainly test the 360 intelligent fully automatic electric toothbrush, manual toothbrush, general electric toothbrush, the intensity of a total of three kinds of toothbrush to brush your teeth, and then observe the characteristics.	
Test result: 1. The 360 intelligent fully automatic electric toothbrush is oscillated 63 times per minute, The frequency of sonic care vibration is 5000rpm, 8000rpm, 15000rpm, The Angle is 45° -75° , can be up and down vibration. 2. The frequency of manual toothbrush is 118rpm, the angle is 90° . 3. The frequency of general electric toothbrush is 32000rpm, the angle is 90° .	
Conclusion: The brushing effect of 360 intelligent fully automatic electric toothbrush is best.	





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Item 3	Parcel elastic test
<p>Test description: Test object were 108 humans</p> <p>It is different parcel elastic of different kinds toothbrush, the higher parcel degree, the better effect of brushing your teeth, this project, mainly test parcel elastic of 360 intelligent fully automatic electric toothbrush, manual toothbrush, general electric toothbrush, a total of three different kinds toothbrushes, and then compare what kind of the parcel elastic is higher</p>	
<p>Test result:</p> <ol style="list-style-type: none"> 1. The 360 intelligent fully automatic electric toothbrush: 360 full range without dead Angle. 2. The manual toothbrush: 90 angle. 3. The ordinary electric toothbrush: 90 angle. 	
<p>Conclusion: The parcel elastic is higher of 360 intelligent fully automatic electric toothbrush.</p>	

Item 4	Clean class test
<p>Test description: Test object were 108 humans</p> <p>Clean class is the cleaning effect of dental plaque, it is different clean class of different kinds toothbrush, the higher clean class, the better effect of brushing your teeth, this project, mainly test parcel elastic of 360 intelligent fully automatic electric toothbrush, manual toothbrush, general electric toothbrush, a total of three different kinds toothbrushes, and then compare what kind of the clean class is higher.</p>	
<p>Test result:</p> <ol style="list-style-type: none"> 1. The clean class of 360 intelligent fully automatic electric toothbrush is 88%, if gel is added to the toothbrush head, the clean class can be 99.99%. using the V-white toothbrush is oscillated 63 times per minute. The actual sonic frequency of V-white toothbrush is 83hz, 133hz, 250hz. 2. The clean class of manual toothbrush is 38.0%. 3. The clean class of ordinary electric toothbrush is 76.0%. 	
<p>Conclusion: The clean class of 360 intelligent fully automatic electric toothbrush is higher, the effect of eliminate dental plaque is the best.</p>	



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Item 5	Whitening degree test
Test description: Test object were 108 humans This project, mainly test whitening degree of 360 intelligent fully automatic electric toothbrush, manual toothbrush, general electric toothbrush, a total of three different kinds toothbrushes, and then compare what kind of the whitening degree is higher.	
Test result: 1. The 360 intelligent fully automatic electric toothbrush with U-shaped toothbrush head, not whitening swinging head can be whiten effectively when 46 times; the 360 intelligent fully automatic electric toothbrush with whitening swinging head and whiting gel, not U-shaped toothbrush head can be whiten effectively when 5 times. 2. The manual toothbrush can be whiten effectively when 280 times. 3. The ordinary electric toothbrush can be whiten effectively when 90 times.	
Conclusion: The clean class of 360 intelligent fully automatic electric toothbrush is higher.	

Item 6	Gums protection degree test
Test description: Test object were 108 humans The less strength you need to brush your teeth, the better the protection of your gums. This project, mainly test gingival protection degree of 360 intelligent fully automatic electric toothbrush, manual toothbrush, general electric toothbrush, a total of three different kinds toothbrushes, and then observe the characteristics.	
Test result: 1. The strength of 360 intelligent fully automatic electric toothbrush is about 1.0N. 2. The strength of manual toothbrush is about 2.5N. 3. The strength of ordinary electric toothbrush is about 1.7N.	
Conclusion: The gums protection degree of 360 intelligent fully automatic electric toothbrush is 41% more than the ordinary electric toothbrush, the ordinary electric toothbrush is 32% more than the manual toothbrush.	



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Item 7	Bactericidal effect test
<p>Test description: Test object were 108 humans</p> <p>Sterilize the 360 intelligent fully automatic electric toothbrush head. Standard strains are placed in sterilized saline to form bacterial solution. Place the toothbrush head in a beaker filled with the bacteria solution, and let 2 toothbrush head sit for 1 minute. Remove the toothbrush head and measure the number of bacteria S1, S2.</p> <p>Turn on the toothbrush switch, vibrate for 45 seconds respectively, apply the toothbrush head with sterilized cotton swab, inoculate the bacteria on the cotton swab into the culture dish, and measure the number of bacteria S3.</p> <p>The other one toothbrush, turn on the indicator light, and 15 minutes later, apply the toothbrush head with the sterilized cotton swab, inoculate the bacteria on the cotton swab into the petri dish, and measure the number of bacteria S4.</p> <p>The bactericidal rate at 45 seconds and 15 minutes is $S3/S1$, $S4/S2$.</p>	
<p>Test result:</p> <p>1. The sterilization rate of toothbrush vibrating for 45 seconds is $S3/S1=95.98\%$.</p> <p>2. The sterilization rate of toothbrush vibrating for 15 minutes is $S4/S2=91.06\%$.</p>	
<p>Conclusion: The 360 intelligent fully automatic electric toothbrush has good bactericidal effect.</p>	



TABLE: list of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Enclosure	SABIC INNOVATIVE PLASTICS US L L C	945 (GG)	V-0, 120°C, min.thickness 1.0mm	UL 94	UL E121562
Lithium ion Battery	Hunan Huahui New Energy Co., Ltd.	HFC1330	3.7V 300mAh, 1.11Wh	IEC 60335-1 IEC 60335-2-52	Test in appliance
PCB	SHANDONG JINBAO TECH-INNOV CORPORATION	ZD-90F, ZD-90FS	V-0, 130°C	UL 94	UL E141940
(Alternative)	SHENZHEN YING-SEOK CIRCUIT CO LTD	YS-01	V-0, 130°C	UL94	UL E475434
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL E141940
Internal wire	Interchangeable	Interchangeable	VW-1, min.80 °C	UL758	UL
Motor	Shenzhen Zhenhua Motor Co., Ltd.	FFS4215-001	3.0-4.2V; 600-1700mA	IEC 60335-1 IEC 60335-2-52	Test in appliance
Note:					



Appendix I: Photo documentation

Photo 1

View: SA-VW-520

☒ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal



Photo 2

View: SA-VW-520

☒ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal





Photo 3

View: SA-VW-520

☐ front☒ rear☐ right side☐ left side☐ top☐ bottom☐ internal

Photo 4

View: SA-VW-520

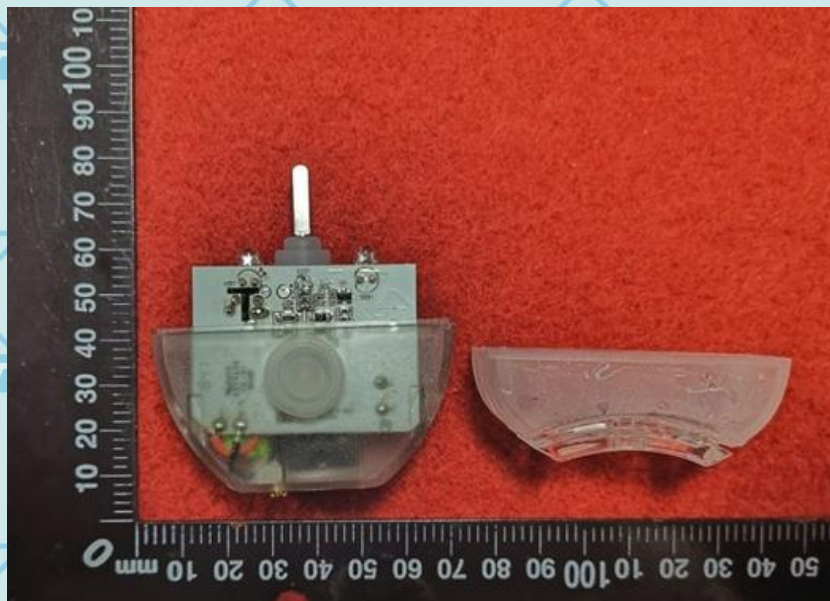
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Photo 5

View: SA-VW-520

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☐ left side

☐ top

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☒ internal

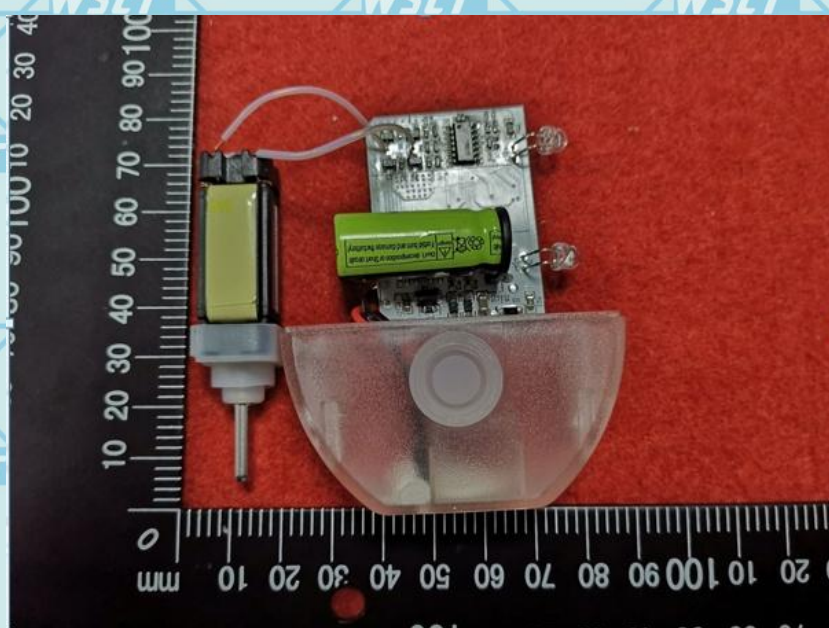


Photo 6

View: SA-VW-520

☐ front

☐ rear

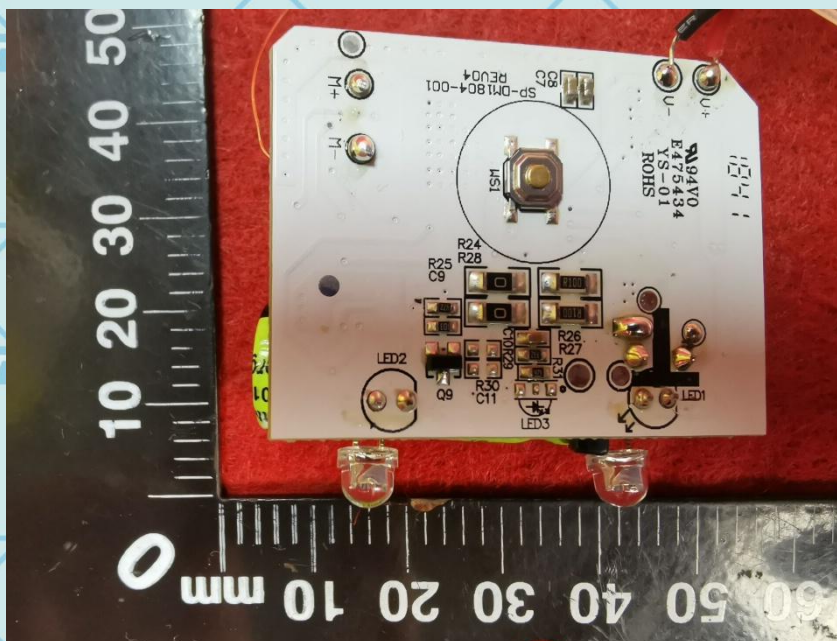
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Photo 7

View: SA-VW-520

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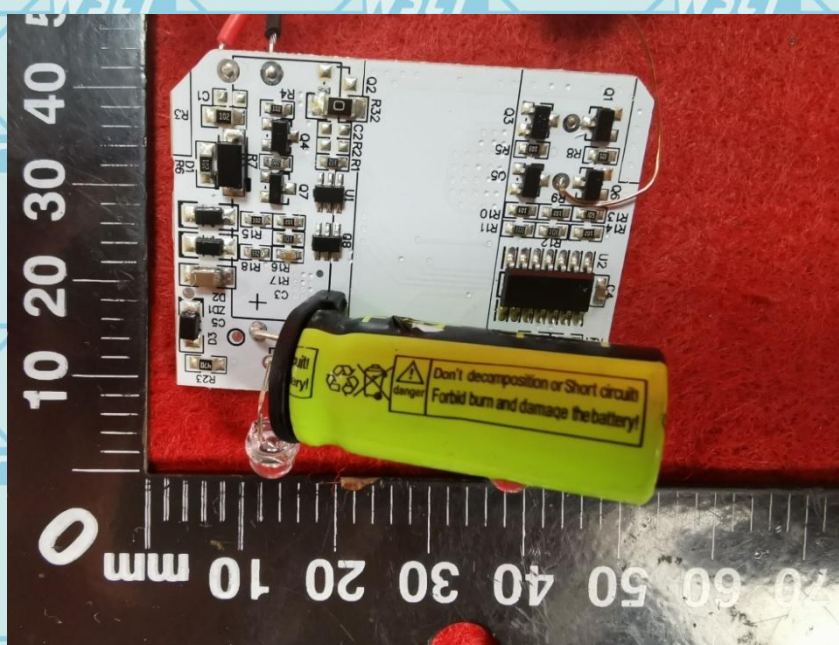


Photo 8

View: SA-VW-520

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[ ] rear
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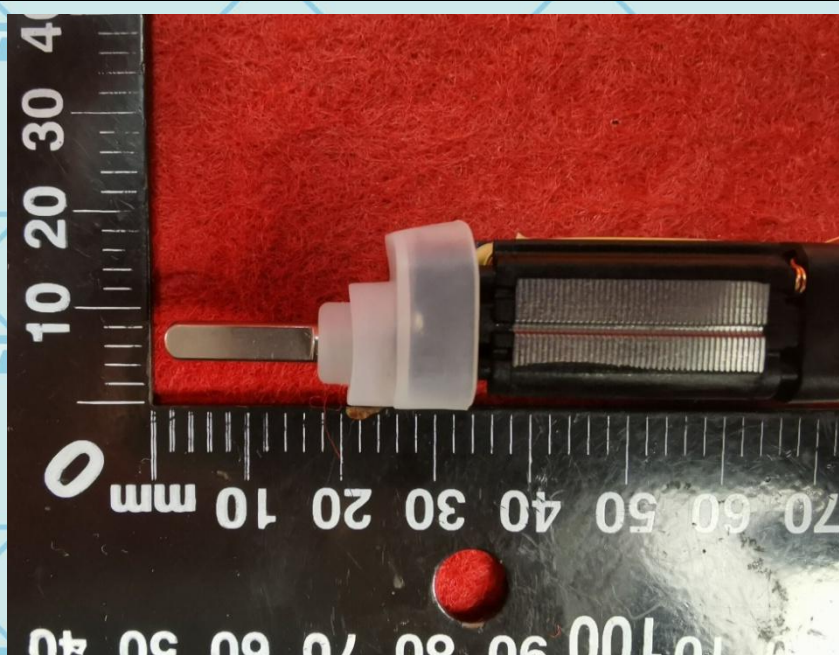




Photo 9

View: SA-VW-520B

☒ front

☐ rear

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Photo 10

View: SA-VW-520B

☒ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☐ internal





Photo 11

View: SA-VW-520B

☐ front

☐ rear

☐ right side

☐ left side

☐ top

☐ bottom

☒ internal



Photo 12

View: SA-VW-520B

☐ front

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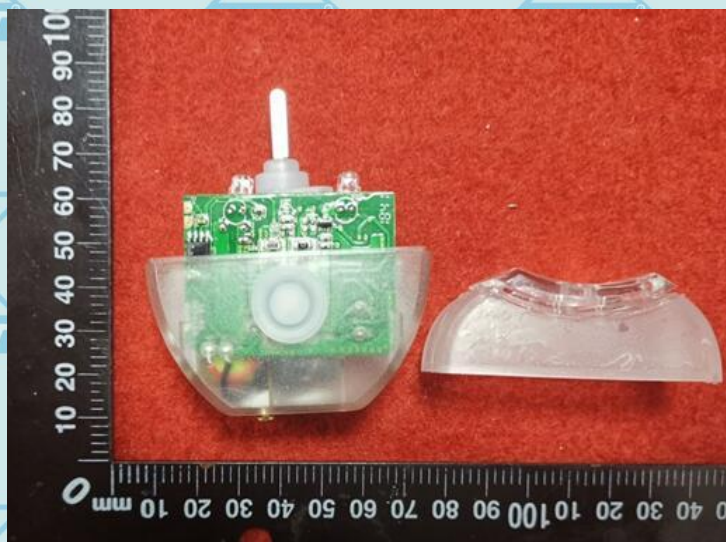




Photo 13

View: SA-VW-520B

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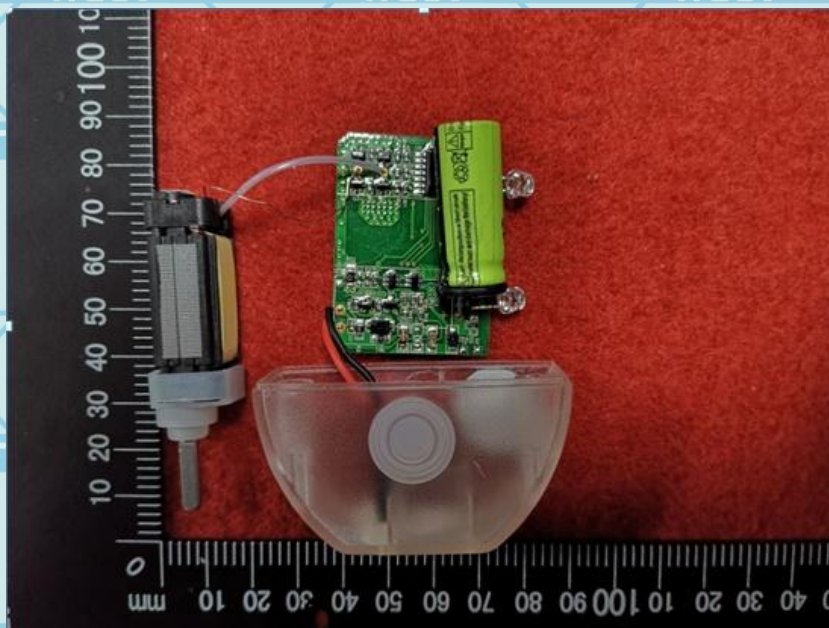


Photo 14

View: SA-VW-520B

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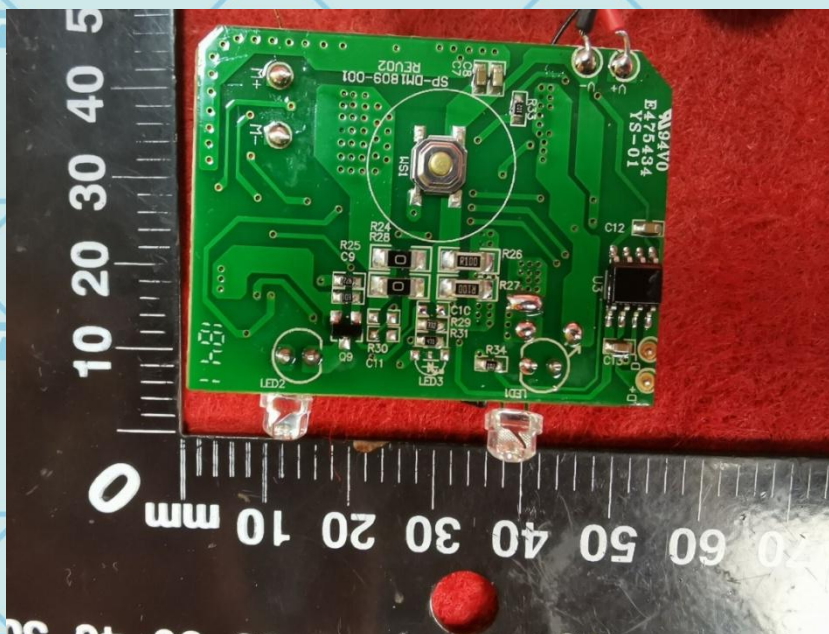




Photo 15

View: SA-VW-520B

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[] bottom

[√] internal

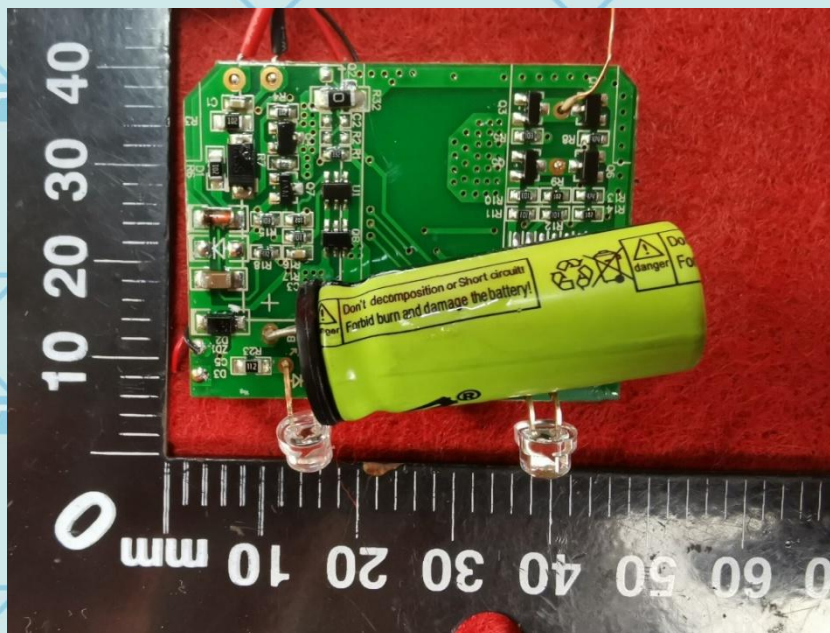


Photo 16

View: SA-VW-520B

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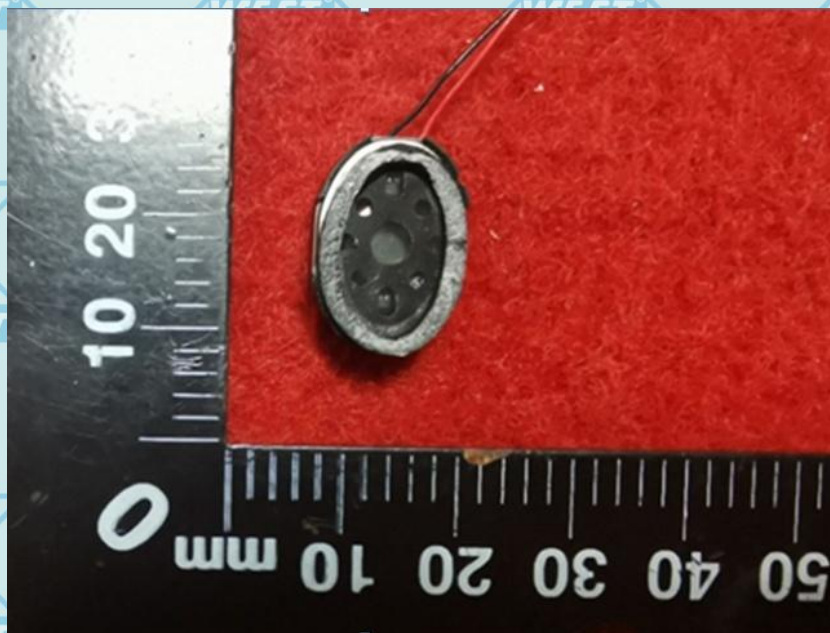




Photo 17

View: SA-VW-520B

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☐ top

☐ bottom

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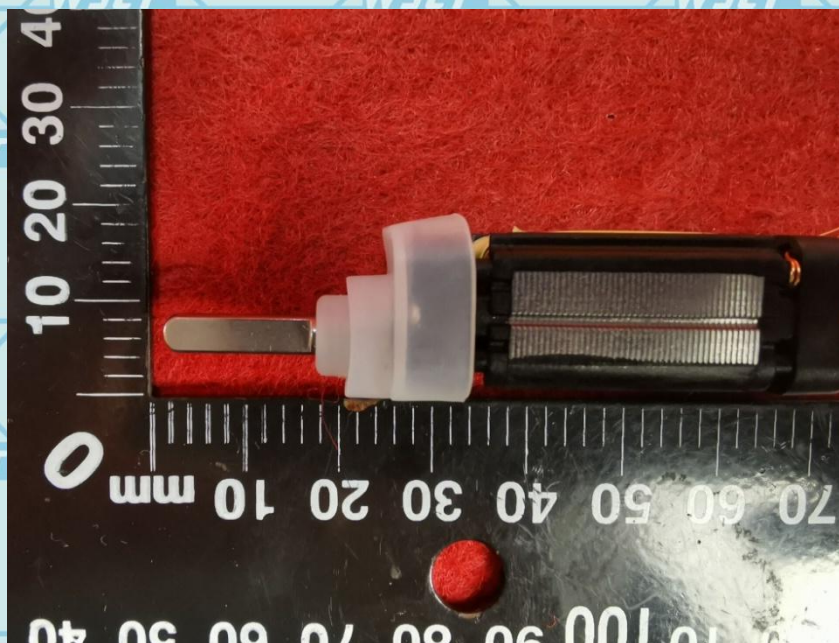


Photo 18

View: SA-VW-520B,

SA-VW-520

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☐ rear

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Photo 19

View: SA-VW-520B,

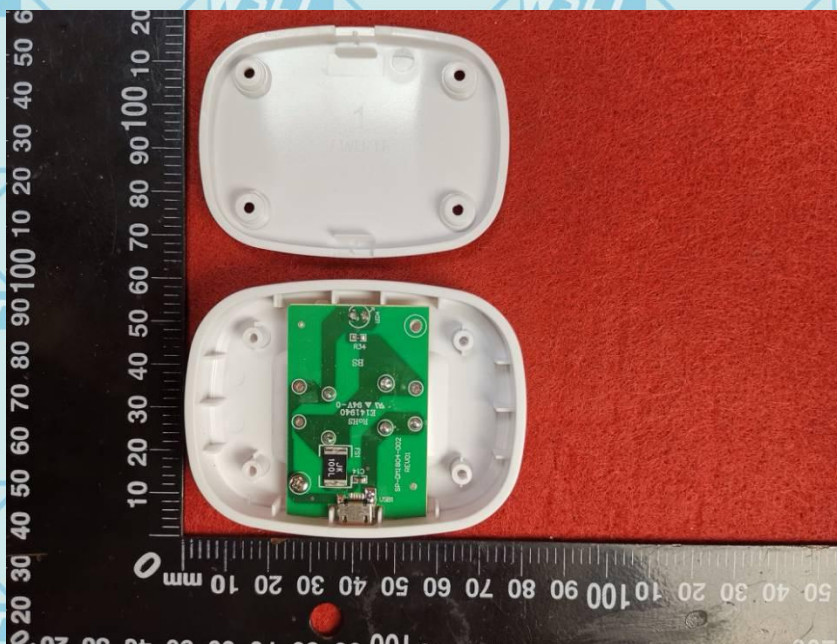
SA-VW-520

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Photo 20

View: SA-VW-520B,

SA-VW-520

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Photo 21

View: SA-VW-520B,

SA-VW-520

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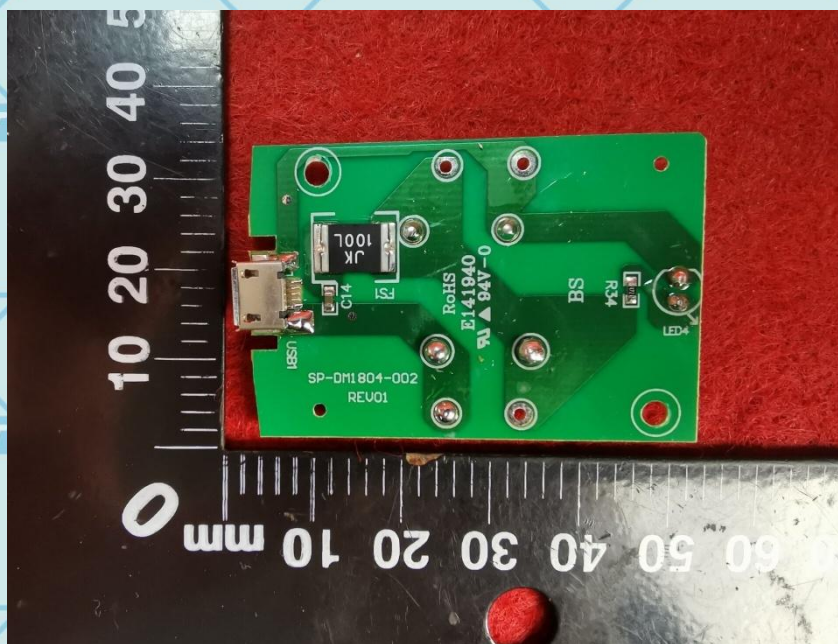


Photo 22

View: SA-VW-520B,

SA-VW-520

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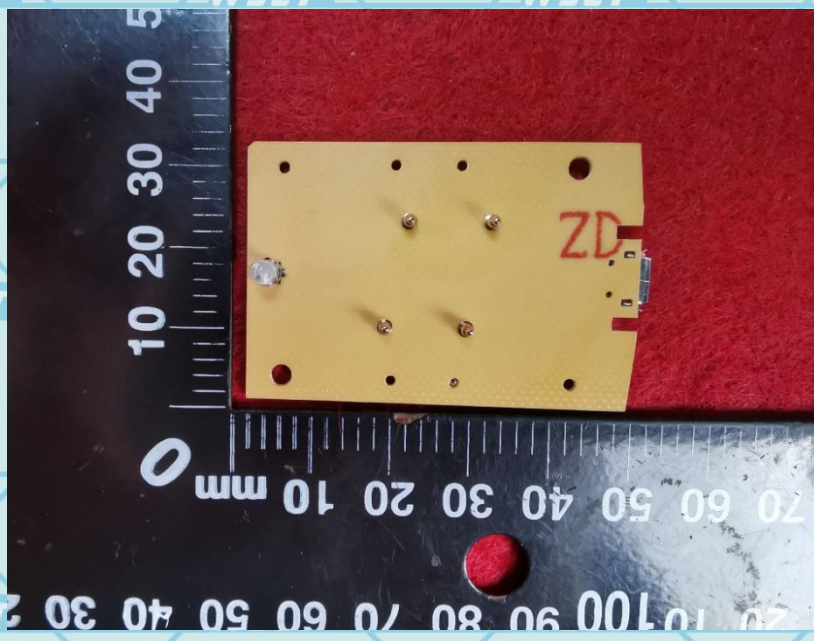




Photo 23

View: ordinary
electric toothbrush

☒ front

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Photo 24

View: manual
toothbrush

☒ front

☐ rear

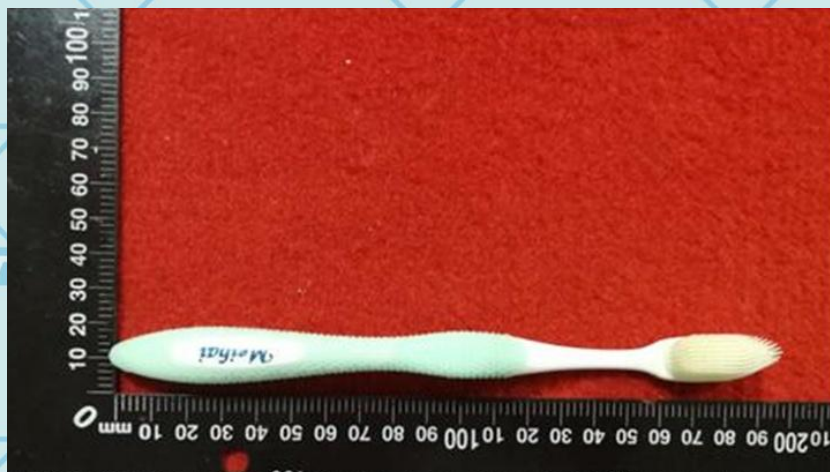
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Appendix II: Equipment list

Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-001	Plug Torque Tester	ZLT-LJ2	LJ010407	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-002	Tumbling Barrel Tester	GT-1	G011307	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-003	Stability Board	WD-1	W010507	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-004	Glow Wire Test Set	GTR-B	R023207	2018.03.02	2019.03.01	Guangzhou Zhilitong	
WSCT S-005	Needle Flame Test Set	ZY-Z	Y021207	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-006	Hot line Coil Resistance Meter	RC-2	200978	2018.08.16	2019.08.15	Hangzhou Weibo	
WSCT S-007	Automatic Frequency Converter	AN97030 TS	069712327L	2018.03.14	2019.03.13	Ainuo	
WSCT S-009	Insulation Resistance Tester	AN9671	079602136	2018.03.14	2019.03.13	Ainuo	
WSCT S-010	Digital Power Meter	PF210	199764	2018.03.14	2019.03.13	Hangzhou Weibo	
WSCT S-011	Digital Power Meter	8716C	870611014	2018.03.14	2019.03.13	Qingdao Qingzhi	
WSCT S-012	Data Acquisition/Switch Unit	34970A	MY44035738	2018.08.16	2019.08.15	Agilent	
WSCT S-013	Desktop Multi Meter	GDN-824 5	CG810127	2018.03.14	2019.03.13	Good Will	
WSCT S-014	Desktop Multi Meter	GDW-824 5	CG810128	2018.03.14	2019.03.13	Good Will	
WSCT S-015	Temp.&Humi. Chamber	GDJS-500 -40	0329	2018.08.16	2019.08.15	Guangzhou Gongwen	
WSCT S-017	Pink Noise Generator	DFR1681	DH06006133	2018.08.16	2019.08.15	Ningbo Zhongce	
WSCT S-018	Function Generator	GFG-821 6A	CH811153	2018.08.16	2019.08.15	Good Will	
WSCT S-019	Digital LCR	YD2810B	3104	2018.08.16	2019.08.15	Yangzi	
WSCT S-020	Electronic weight	BCSS-3	080556	2018.08.16	2019.08.15	Balance Electron	
WSCT S-021	Audio Generator	GAG-809	EG850712	2018.03.14	2019.03.13	Good Will	





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-022	Oven	101A-3	33016	2018.08.16	2019.08.15	Rongfeng	
WSCT S-023	Digital Caliper	(0~ 150)mm	300609	2018.03.14	2019.03.13	Shanghai	
WSCT S-024	Torque Driven	301.TDK	06K189	2018.03.14	2019.03.13	Nakamura	
WSCT S-025	Oscilloscope	TDS3012 B	B042290	2018.08.16	2019.08.15	Tektronix	
WSCT S-026	Pull & Push Scale	FB-30K	192869	2018.08.16	2019.08.15	Imada	
WSCT S-027	AC/DC Dielectric Resistance Test Meter	AN9634H	069610322	2018.03.14	2019.03.13	Ainuo	
WSCT S-028	Ground Bond Meter	AN9616H	079602157	2018.03.14	2019.03.13	Ainuo	
WSCT S-029	Leakage Current	AN9620H	079601341	2018.03.14	2019.03.13	Ainuo	
WSCT S-030	DC Resistance Meter	YD2511	2073	2018.03.14	2019.03.13	Yangzi	
WSCT S-031	Voltage Regulator	SVC-20K VA	0502072	2018.03.14	2019.03.13	Yangzhou Huatai	
WSCT S-032	DC Power	TPR-3010 D	0384970	2018.08.16	2019.08.15	Longwei	√
WSCT S-033	Data Acquisition/ Switch Unit	34970A	MY44020255	2018.08.16	2019.08.15	Agilent	
WSCT S-034	Plug Gauge	(0.02~ 1)mm	4P0533	2018.08.16	2019.08.15	Jinghua	
WSCT S-035	Spring Hammer	CJ-3	C031207	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-036	Spring Hammer	CJ-3	C031307	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-037	Spring Hammer	CJ-3	C031107	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-038	Ball Pressure	QY-1	Q010707	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-039	Stop Watch	PC396	101	2018.03.14	2019.03.13	Shenzhen Huibo	√
WSCT S-040	Digital Multimeter	115C	93420101	2018.08.16	2019.08.15	Fluke	√
WSCT S-041	Digital Multimeter	115C	93420057	2018.08.16	2019.08.15	Fluke	
WSCT S-042	Test pin	TZ-31	V310307	2016.03.04	2019.03.03	Guangzhou Zhilitong	





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-043	Test pin	TZ-32	V320307	2018.03.14	2019.03.13	Guangzhou Zhilitong	
WSCT S-044	Test probe	ST-01	S011107	2017.08.17	2020.08.16	Guangzhou Zhilitong	
WSCT S-045	Test pin	ZX-14	X140107	2016.11.26	2019.11.25	Guangzhou Zhilitong	
WSCT S-046	Ball Pressure	QY-1	Q012807	2018.03.03	2021.03.02	Guangzhou Zhilitong	
WSCT S-047	Test finger	WZ-1	E010907	2018.04.14	2021.04.13	Guangzhou Zhilitong	
WSCT S-048	Test finger	WZ-2	E020907	2018.04.14	2021.04.13	Guangzhou Zhilitong	
WSCT S-049	Test Flat pin	TZ-40	V400107	2016.08.18	2019.08.17	Guangzhou Zhilitong	
WSCT S-050	Test Small pin	TZ-14	V140207	2016.08.18	2019.08.17	Zhilitong	
WSCT S-051	Test finger	TZ-12	H020507	2018.03.14	2019.03.13	Guangzhou Zhilitong	
WSCT S-052	Test finger	ZJ-1	Z011207	2018.03.14	2019.03.13	Guangzhou Zhilitong	
WSCT S-053	Articulated test Finger	PA100A	U080807	2016.11.26	2019.11.25	Guangzhou Zhilitong	
WSCT S-054	Test finger	GZ-1	F011107	2017.08.17	2020.08.16	Guangzhou Zhilitong	
WSCT S-055	Test finger	ZX-1	X010707-1	2017.08.17	2020.08.16	Guangzhou Zhilitong	
WSCT S-056	Test pin	ZX-1	X010707-2	2018.03.14	2019.03.13	Guangzhou Zhilitong	
WSCT S-057	Test pin	WZ-2	V600208	2017.08.17	2020.08.16	Guangzhou Zhilitong	
WSCT S-062	Test hook	WSCTS0 1	001	2017.08.17	2020.08.16	Shenzhen Hengxintai	
WSCT S-063	Clock	QUARTZ	--	2018.08.16	2019.08.15	PanyuMingzh uxing	
WSCT S-064	Tape	7.5m	7025	2018.03.14	2019.03.13	Rongsheng	
WSCT S-065	Data Acquisition/Switch Unit	34970A	MY44026389	2018.08.16	2019.08.15	Agilent	
WSCT S-066	DC Power	RXN-3010 D	2008006875	2018.03.14	2019.03.13	Zhaoxin	
WSCT S-067	Digital Power Meter	CP-280	280902	2018.08.16	2019.08.15	Chyng hong	





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-068	Electronic scale	150kg	002	2018.03.14	2019.03.13	Yinuowei	
WSCT S-069	Leakage Current	Simpson 228/SK52 5-1148	10-866030	2018.03.14	2019.03.13	USASimpson	
WSCT S-070	Steel Ball	GQ-1	GQ011307	2018.07.21	2021.07.20	Guangzhou Zhilitong	
WSCT S-071	Dielectric strength test device	WSC04	002	2018.08.16	2019.08.15	Shenzhen Hengxintai	
WSCT S-072	Touch Current	420B	0706GD47	2018.08.16	2019.08.15	CEPREI	
WSCT S-073	Digital Power Meter	PF9800	709393	2018.03.14	2019.03.13	YUANFANG	
WSCT S-074	Digital Power Meter	PF9800	709387	2018.03.14	2019.03.13	YUANFANG	
WSCT S-075	Digital Power Meter	PF9800	709387	2018.08.16	2019.08.15	YUANFANG	
WSCT S-078	Metal Rod	--	0021877	2018.08.16	2019.08.15	--	
WSCT S-081	Electronic Load	IT8512	0020021863 76001076	2018.03.14	2019.03.13	ITECH Eletronics	
WSCT S-082	Electronic Load	IT8512	0020021863 76001077	2018.03.14	2019.03.13	ITECH Eletronics	
WSCT S-087	Oven	101A-3	32232	2018.08.16	2019.08.15	SHENZHEN RONGFENG	
WSCT S-088	Steel Ball	GQ-2	0021486	2018.08.16	2019.08.15	Zhilitong	
WSCT S-090	Weight	35IB	M1-35	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-091	Weight	30IB	M1-30	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-092	Weight	20IB	M1-20	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-093	Weight	10IB	M1-10	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-094	Weight	5IB	M1-05	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-095	Weight	1IB	M1-01	2017.02.10	2020.02.09	Penglaishi Shuiling	
WSCT S-096	Digital Power Meter	8705B	870906342	2018.08.16	2019.08.15	Qingdao Qingzhi	
WSCT S-097	Digital Power Meter	8705B	870906341	2018.08.16	2019.08.15	Qingdao Qingzhi	





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-098	Digital Power Meter	8716C	870906281	2018.08.16	2019.08.15	Qingdao Qingzhi	
WSCT S-099	Digital Power Meter	8716C	870906280	2018.08.16	2019.08.15	Qingdao Qingzhi	
WSCT S-100	Data Acquisition/Switch Unit	34970A	MY44047073	2018.08.16	2019.08.15	Agilent	
WSCT S-101	Data Acquisition/Switch Unit	34970A	MY44046852	2018.08.16	2019.08.15	Agilent	
WSCT S-102	ELectronic Load	IT8512	0020021863 76001048	2018.08.16	2019.08.15	ITECH Eletronics	
WSCT S-103	ELectronic Load	IT8512	0020021863 74001002	2018.08.16	2019.08.15	ITECH Eletronics	
WSCT S-104	Multi functional gradient measuring instrument	0~90° /2'	--	2018.03.14	2019.03.13	Wenzhou Nanfang	
WSCT S-105	Probe	TZ-60	V600108	2017.08.17	2020.08.16	--	
WSCT S-106	Probe	TZ-60	V600208	2017.08.17	2020.08.16	--	
WSCT S-107	Oscilloscope Carbon	HP9258	020213402	2018.08.16	2019.08.15	Tektronix	
WSCT S-108	Oscilloscope Carbon	HP9258	020213401	2018.08.16	2019.08.15	Tektronix	
WSCT S-109	Magnifier	CT-200U	--	2018.08.16	2019.08.15	--	
WSCT S-110	digital power Meter	WT210	91LA25633	2018.08.16	2019.08.15	YOKOGAWA	
WSCT S-112	Salt mist tester	SKN-1	8930148	2018.03.14	2019.03.13	GOTO	
WSCT S-113	Tracking Index Tester	HD-NH-1	11012725	2018.03.14	2019.03.13	HongDu	
WSCT S-114	Hammer	ZZ-TH021	--	2018.08.16	2019.08.15	Shenzhen Zhongzi	
WSCT S-115	Hammer	ZZ-TH022	--	2018.08.16	2019.08.15	Shenzhen Zhongzi	
WSCT S-116	Creepage distance test card	(1.0~ 10.0)mm	12040909	2017.08.17	2020.08.16	Shenzhen Zhongzi	
WSCT S-118	Electronic load	M9712	--	2018.08.16	2019.08.15	Maynuo	
WSCT S-119	Electronic load	M9712	0900209601 20912074	2018.08.16	2019.08.15	Maynuo	





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-120	Electronic load	M9712	090020960 120912064	2018.08.16	2019.08.15	Maynuo	
WSCT S-121	Electronic load	M9712	--	2018.08.16	2019.08.15	Maynuo	
WSCT S-122	Data Acquisition/Switch Unit	34970A	US3704800 0	2018.03.14	2019.03.13	Agilent	
WSCT S-123	Data Acquisition/ Switch Unit	34970A	MY440468 52	2018.03.14	2019.03.13	Agilent	
WSCT S-124	Data Acquisition/Switch Unit	34970A	US3701580 5	2018.03.14	2019.03.13	Agilent	
WSCT S-125	Data Acquisition/Switch Unit	34970A	US3701579 8	2018.03.14	2019.03.13	Agilent	
WSCT S-126	Data Acquisition/Switch Unit	34970A	MY440357 38	2018.03.14	2019.03.13	Agilent	
WSCT S-127	Data Acquisition/Switch Unit	34970A	--	2018.03.02	2019.03.01	Agilent	
WSCT S-129	Temperature and humidity meter	RS210	KT-903	2018.03.14	2019.03.13	Shanghai Yijie automation	
WSCT S-130	Pull & Push Scale	NK-50	205013110 5450	2018.03.14	2019.03.13	Wenzhou Shandu	
WSCT S-131	Horizontal vertical combustion tester	DTE-DF	--	2018.08.16	2019.08.15	Shenzhen Huacetong	
WSCT S-132	Oscilloscope	TDS3012B	SRX06011	2018.03.02	2019.03.01	Tektronix	
WSCT S-133	Automatic Frequency Converter	KAP-31030	--	2018.03.02	2019.03.01	Shenzhen Kenuoma	
WSCT S-193	Touch current tester	CS2675X-1	--	2018.03.14	2019.03.13	Nanjing Changsheng	
WSCT S-194	Suger tester	DTE-D200	--	2018.08.16	2019.08.15	Shenzhen Huacetong	
WSCT S-195	Anemometer	405-V1	--	2018.08.16	2019.08.15	Testo	
WSCT S-196	Signal Generator	SK-D12	HD2016120 08	2018.08.16	2019.08.15	Shenzhen Suoketai	
WSCT S-197	Pull & Push Scale	10N	5314F0107 4	2018.08.16	2019.08.15	Wenzhou Sandu	√





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Code	Name	Model/ Type	S/N	Calibrated date	Next Calibration Date	Manufacture	Used or not
WSCT S-198	Test Plug	ZLT-L19	I191403	2018.08.16	2019.08.15	Guangzhou Zhilitong	
WSCT S-199	Oscilloscope	P6015A	--	2018.03.14	2019.03.13	Tektronix	
WSCT S-214	Test resistance	WSCTS01	--	2018.08.16	2019.08.15	--	
WSCT P-009	Image measurement instrument	YVM2010V T	8660	2018.08.16	2019.08.15	DONGGUAN YUANXIN	√

The end



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Report No.: MMIRPCKM81608716

MSDS Report

Sample Description
& Model

Lithium-ion battery 1340

Applicant

Hunan Huahui New Energy Co., Ltd.

Address

No.7, Tongziba Lane, Jinxiu Road, Yiyang, Hunan



微信扫一扫，使用小程序 小程序扫一扫，在线验证



No.: MMIRPCKM81608716
Code: VmNJv4

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北京实验室: (010)82618116	长春实验室: (0431)85150908	石家庄实验室: (0311)85376660	武汉实验室: (027)83997127
上海实验室: (021)64851999	大连实验室: (0411)87336618	西安实验室: (029)89608785	合肥实验室: (0551)63843474
青岛实验室: (0532)88706866	哈尔滨实验室: (0451)88104651	呼和浩特实验室: (0471)3450025	广州实验室: (020)89224310
深圳实验室: (0755)26050909	郑州实验室: (0371)69350670	杭州实验室: (0571)87219096	厦门实验室: (0592)5568048
天津实验室: (022)27360730	新疆实验室: (0991)6684186	宁波实验室: (0574)87736499	成都实验室: (028)87702708
苏州实验室: (0512)62997900			



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Report No.: MMIRPCKM81608716 Date: 01.04.2019 Page 1 of 10

Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.7 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical product identification

Sample Description: Lithium-ion battery

Sample Model: 1340

Recommended Uses: N/A

Restrictions on use: N/A

Supplier name: Hunan Huahui New Energy Co., Ltd.

Address: No.7, Tongziba Lane, Jinxiu Road, Yiyang, Hunan

Phone number: 0737-6189858

FAX: 0737-2633669

E-mail: 65579673@qq.com

Emergency phone number: 0769-81601908

Section 2 - Hazards Identification

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

Classification according to GHS

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation



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H335 May cause respiratory irritation

Precautionary statement(s):

Prevention:

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P271 Use only outdoors or in a well-ventilated area.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty water.

P321 Specific treatment (See additional emergency instructions).

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER, if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Ferrous Phosphate Lithium	15365-14-7	476-700-9	40



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Graphite	7782-42-5	231-955-3	25
Aluminium	7429-90-5	231-072-3	5
Copper	7440-50-8	231-159-6	10
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	15
Polyvinylidene fluoride resin	24937-79-9	607-458-6	5

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Small Fire: Dry chemical, CO₂, water spray or regular foam. Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media:

No data available.

Specific Hazards arising from the chemical:

Special hazards arising from the substance or mixture



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Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature ($>150^{\circ}\text{C}$ (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in close proximity.

Specific protective actions for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions:

As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. Large Spill: Consider initial downwind evacuation for at least 100 meters (330 feet).

Protective equipment:

No data available.

Emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Absorb with earth, sand or other non-combustible material. Leaking batteries and contaminated absorbent material should be placed in metal containers.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to



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fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
15365-14-7	N/A	N/A	N/A
7782-42-5	TLV-TWA 2mg/m ³	REL-TWA 2.5mg/m ³	PEL-TWA 15mppcf PEL-TWA 20mppcf
7429-90-5	TLV-TWA 1mg/m ³	REL-TWA 2mg/m ³ REL-TWA 5mg/m ³ REL-TWA 10mg/m ³	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
7440-50-8	TLV-TWA 0.2mg/m ³ TLV-TWA 1mg/m ³	REL-TWA 1mg/m ³ REL-TWA 0.1mg/m ³	PEL-TWA 0.1mg/m ³ PEL-TWA 1mg/m ³
21324-40-3	N/A	N/A	N/A
24937-79-9	N/A	N/A	N/A

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment:

Respiratory protection: Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.



Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour:	Red.
Physical State:	Cylindrical.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Explosion Limits (vol% in air):	Not available.
Vapour pressure, kPa at 20°C:	Not available.
Vapor density:	Not available.
Density/Relative density (water = 1):	Not available.
Solubility(ies):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Other information:	
Voltage	3.2V
Electric capacity	320mAh
Electric Energy	1.02Wh

Section 10 - Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatible materials: Oxidizing agents, acid base.



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Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 11 - Toxicological Information

Acute Toxicity:

CAS No.	LC50/LD50
15365-14-7	No data available.
7782-42-5	No data available.
7429-90-5	No data available.
7440-50-8	No data available.
21324-40-3	No data available.
24937-79-9	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available.

Skin: No data available.

Ingestion: No data available.

Inhalation: No data available.

Section 12 - Ecological Information

Ecological Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.



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Section 13 - Disposal Considerations

Disposal methods:**Recommendation:**

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging**Recommendation:** Disposal must be made according to official regulations.

Section 14 - Transport Information

UN Number	
IATA	UN3480
IMDG	UN3480
Model Regulation	UN3480
UN Proper shipping name	
IATA	Lithium ion batteries
IMDG	LITHIUM ION BATTERIES
Model Regulation	LITHIUM ION BATTERIES
Transport hazard class(es)	
IATA	9
IMDG	9
Model Regulation	9
Packing group	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Packaging Sign	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	No information available.

Transport information: The Lithium-ion battery 1340 has passed the test UN38.3, according to the report ID: MZIAACUS02023021. 1.2m drop test, according to the report ID:



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MDIWL6U68112746.

According to the Packing Instruction 965 section II of IATA DGR 60th Edition for transportation, Cargo aircraft only.

According to the special provision 188 of IMDG (38-16) or the special provision 188 of <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th). The goods are not subject to other provision of this code.

Separate batteries to prevent short-circuiting. and they should be packed in strong package during transport. Lithium cell or battery should incorporate a safety venting device or be designed to prevent a violent rupture under normal transport conditions. Keep away from high temperature and open flames.

Transport Fashion: By air, by sea, by railway, by road.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDL	EINECS/ ELINCS/ NLP
15365-14-7	Listed	Listed	Listed DSL	Listed
7782-42-5	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
21324-40-3	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Time: 2019-01-04

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However,



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neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

End of report

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报告编号(Report ID): MMIRPCKM81607711



空运 By Air

锂电池

符合相关包装说明第 II 部分

货物运输条件鉴定书

Certification for Safe Transport of Goods

样品名称及型号
(Sample Description
& Model)锂离子电池 型号: 1340
Lithium-ion battery Model: 1340
3.2V 320mAh 1.02Wh委托单位
(Applicant)湖南华慧新能源股份有限公司
Hunan Huahui New Energy Co.,ltd生产单位
(Manufacturer)湖南华慧新能源股份有限公司
Hunan Huahui New Energy Co.,ltdPONY 谱尼测试
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No.: MMIRPCKM81607711
Code: VmNJv4



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Report ID: MMIRPCKM81607711

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货物运输条件鉴定书

Certification for Safe Transport of Goods

样品名称 Sample Description	锂离子电池 型号: 1340 3.2V 320mAh 1.02Wh		
	Lithium-ion battery Model: 1340 3.2V 320mAh 1.02Wh		
委托单位 Applicant	湖南华慧新能源股份有限公司		
	Hunan Huahui New Energy Co.,Ltd		
生产单位 Manufacturer	湖南华慧新能源股份有限公司		
	Hunan Huahui New Energy Co.,Ltd		
检验方法、程序 Inspection method and procedure	国际航空运输协会《危险品规则》(60 版); IATA Dangerous Goods Regulations (DGR) 60 th Edition		
电池信息 Battery information	电池种类/Battery type	锂离子电池芯 Lithium ion cell	
	型号规格/Model	1340 3.2V 320mAh 1.02Wh	
	外观/Appearance	红色和黑色/Red and Black 40.3mm×13.1mm	
包装件信息 Package information	尺寸/Size	225mm(L)×120mm(W)×115mm(H)	
	电池净重/Battery net weight	0.65kg	
	电池个数/Battery number	60pcs	
	放置方式/ Placement	只有电池/Battery only	
鉴定结果 Identification conclusion	1.危险性识别(Hazard identification) 锂离子电池芯。 Lithium ion cell. 2.按照国际航空运输协会《危险品规则》办理类项 (Suggestion according to IATA DGR) 该物品满足包装说明 965 第 II 部分。 The goods are in compliance with the packaging instruction 965 section II. 3.包装要求 (Packaging requirements) 根据包装说明 965 第 II 部分办理。 The goods are packaged according to the packaging instruction 965 section II. 仅限货机。Cargo Aircraft Only.		
检验日期 Inspection date	2018 年 12 月 17 日	签发日期 Issue Date	2019 年 1 月 4 日
备注 Comment	本报告有效期至 2019 年 12 月 31 日。 The report is valid until December 31, 2019.		

主检人 :
(Appraiser)

左晶晶

审核人 :
(Checker)

常松

批准人 :
(Approver)

王



货物运输条件鉴定书

Certification for Safe Transport of Goods

序号 No.	检验结果及其他事项 Inspection results and other things
1	<p>客户声明 Consignor announcement:</p> <p>a. 本报告所述锂电池不属于因安全原因被制造商召回的锂电池, 或运输前不能预先判断为损坏或有缺陷的锂电池。 Lithium cells and batteries listed in this report are not the defective cells or batteries returned to the manufacture for safety reasons or cannot be diagnosed as damaged or defective prior to transport.</p> <p>b. 本报告所述锂电池不进行以回收或处置为目的的航空运输, 不属于废弃锂电池。 Lithium cells and batteries listed in this report are not waste lithium cells and batteries, and they will not be shipped for recycling or disposal from air transport.</p> <p>c. 本报告所述锂电池按照《危险品规则》3.9.2.6.1(e)规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the quality management programme as described in DGR 3.9.2.6.1(e).</p> <p>d. 提交运输的锂离子电池芯和电池荷电状态(SoC)不超过其额定容量的 30%。 Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated capacity.</p> <p>e. 电池或电池组的制造商和代理商应提供《试验和标准手册》第三部分第 38.3 小节第 38.3.5 段规定的测试摘要。 Manufacturers and subsequent distributors of cells or batteries must make available the test summary as specified in the UN Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.</p>
2	<p>a. 本报告所述锂电池已通过联合国《试验和标准手册》第 III 部分 38.3 小节相应测试要求。(报告编号: MZIAACUS02023021) Lithium cells and batteries listed in this report are of the types proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. (Report No.: MZIAACUS02023021)</p> <p>b. 包装件能够承受 1.2 米跌落试验。(报告编号: MDIWLM6U68112746) The package has passed the 1.2m drop test. (Report No.: MDIWLM6U68112746)</p>

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货物运输条件鉴定书

Certification for Safe Transport of Goods

序号 No.	检验结果及其他事项 Inspection results and other things
3	<p>a. 电池芯和电池必须包装在完全封闭的内包装中, 然后放入符合 5.0.2.4, 5.0.2.6.1 和 5.0.2.12.1 的坚固的刚性外包装中。 Cells and batteries must be packed in inner packagings that completely enclose the cell or battery and placed in a strong rigid outer packaging which conform to the provisions of 5.0.2.4, 5.0.2.6.1 and 5.0.2.12.1.</p> <p>b. 电池芯和电池禁止与其它危险品放入同一外包装。 Cells and batteries must not be packed in the same outer packaging with other dangerous goods.</p> <p>c. 电池芯和电池包装件禁止与第 1 类 (除 1.4S)、2.1 项、第 3 类、4.1 项或 5.1 项危险品放入同一集合包装。 Packages containing cells or batteries must not be placed in an overpack with packages containing dangerous goods classified in Class 1 other than Division 1.4S, Division 2.1, Class 3, Division 4.1 or Division 5.1.</p>
4	<p>a. 电池具有适当的防短路措施。这包括在同一包装件内防止与导电材料接触而导致短路。 Cells and batteries are properly protected to prevent short circuits. This includes protection against contact with electrically conductive materials within the same packaging that could lead to a short circuit.</p>
5	<p>a. 每个包装件必须按 DGR 7.1.5.5 要求耐久和清晰地作锂电池标记 (图 7.1.C), 并粘贴仅限货机运输标签 (图 7.4.B)。 Each package must be durably and legibly marked with the lithium battery mark (Figure 7.1.C) as required by DGR 7.1.5.5 and cargo aircraft only label (Figure 7.4.B).</p>
6	<p>a. 锂电池指南文件可在以下链接获得- http://www.iata.org/whatwedo/cargo/dgr/Documents/lithium-battery-shipping-guidelines.pdf。 A lithium battery guidance document is available at the following link - http://www.iata.org/whatwedo/cargo/dgr/Documents/lithium-battery-shipping-guidelines.pdf</p>

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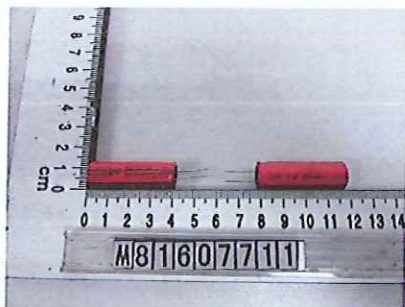
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样品图片 (Photo of the Sample):

电池 Battery



包装件 Package



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报告编号: MMIEQVLM81656716

MSDS 报告



样品名称及型号

锂离子电池 型号: 1340

委托单位

湖南华慧新能源股份有限公司

单位地址

湖南省益阳市金秀路桐子坝巷7号



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上海实验室: (021)64851999	大连实验室: (0411)87336618	西安实验室: (029)89608785	合肥实验室: (0551)63843474
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深圳实验室: (0755)26050909	郑州实验室: (0371)69350670	杭州实验室: (0571)87219096	厦门实验室: (0592)5568048
天津实验室: (022)27360730	新疆实验室: (0991)6684186	宁波实验室: (0574)87736499	成都实验室: (028)87702708
苏州实验室: (0512)62997900			



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化学品安全技术说明书

GB/T16483-2008 & GB/T17519-2013 & GB 30000.2-29-2013

第一部分 化学品及企业标识

化学品信息

样品中文名称: 锂离子电池

样品英文名称: lithium ion battery

样品型号: 1340

推荐用途: 无资料

限制用途: 无资料

供应商信息

企业名称: 湖南华慧新能源股份有限公司

地址: 湖南省益阳市金秀路桐子坝巷 7 号

邮政编码: 413000

电话号码: 0737-6189858

应急电话: 0769-81601908

传真: 0737-2633669

电子邮件地址: 65579673@qq.com

第二部分 危险性概述

紧急情况概述: 本产品是一个电池。此物出售时暴露的安全信息已给出。产品的预期用途不会导致化学物质的暴露。如果破裂, 存在以下危害。

GHS 危险性类别:

急性毒性, 经口 (4)

皮肤腐蚀/刺激 (2)

严重眼损伤/眼刺激 (2A)

特异性靶器官毒性, 一次接触; 呼吸道刺激 (3)

GHS 标记要素, 包括预防性的陈述:

危害类型象形图:



信号词:

警告

危险性说明:



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H302 吞咽有害

H315 造成皮肤刺激

H319 造成严重眼刺激

H335 可能引起呼吸道刺激

防范说明:

预防措施:

P264 作业后彻底清洗皮肤和衣物。

P270 使用本产品时不要进食、饮水或吸烟。

P280 戴防护手套、穿防护服、戴防护眼罩和戴防护面具。

P261 避免吸入粉尘、烟、气体、烟雾、蒸气和喷雾。

P271 只能在室外或通风良好之处使用。

事故响应:

P301 + P310 如误吞咽: 立即呼叫解毒中心或医生。

P330 漱口。

P302 + P352 如皮肤沾染: 用大量肥皂和水清洗。

P321 具体治疗 (参看附加急救指示)。

P332 + P313 如发生皮肤刺激或皮疹: 求医。

P362 + P364 脱掉所有沾染的衣服, 清洗后方可重新使用。

P305 + P351 + P338 如进入眼睛: 用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出, 取出隐形眼镜, 继续冲洗。

P337 + P313 如仍觉眼刺激: 求医。

P304 + P340 如误吸入: 将受害人转移到空气新鲜处, 保持呼吸舒适的休息姿势。

P312 如感觉不适, 呼叫解毒中心或医生。

安全储存:

P403 + P233 存放在通风良好的地方。保持容器密闭。

P405 存放处须加锁。

废弃处置:

P501 将内容物处理到得到批准的废物处理厂。

其他危险

物理和化学危险: 详细信息见第十部分。

健康危害: 详细信息见第十一部分。

环境危害: 详细信息见第十二部分。

第三部分 成分/组成信息

化学品性质: 混合物



化学名称	CAS No.	EC#	百分含量 (%)
$\text{LiNi}_x\text{Co}_y\text{Mn}_{1-x-y}\text{O}_2$	---	---	50
Graphite	7782-42-5	231-955-3	15
Copper	7440-50-8	231-159-6	10
Aluminium	7429-90-5	231-072-3	10
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	10
Polyvinylidene fluoride resin	24937-79-9	607-458-6	5

第四部分 急救措施

急救:

总说明: 正常情况下不需要特别的措施。

眼睛接触: 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

皮肤接触: 脱去污着衣物, 用大量的水清洗, 然后清洗双手。衣物清洗后再使用。如果症状持续, 速就医。

吸入: 立即将人员移至通风处。如果呼吸困难速进行人工呼吸抢救。如症状持续速就医。

食入: 禁止催吐。速就医。

急性和迟发性效应: 无可数据。

主要症状: 无可数据。

健康影响: 无可数据。

对保护施救者的忠告: 立即清除所有泄漏物。在安全许可下, 保证装载安全。捆扎/收集可回收的产品。将剩下的材料放入有盖的容器, 以便废弃处置。

对医生的特别提示: 无可数据。

第五部分 消防措施

适用灭火剂: 轻微火灾: 采用干粉、二氧化碳、水幕或普通泡沫灭火剂灭火。重大火灾: 通过水幕、喷水雾或普通泡沫灭火剂灭火; 在没有危险的情况下, 从事故现场运走盛有此类物质的容器。

不适用灭火剂: 无可数据。

特别危险性: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温($>150^{\circ}\text{C}$ (302°F))时, 含有易燃电解液的锂离子电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电)时; 可能燃烧迅速与耀斑燃烧效果; 可能会引燃邻近的其他的电池。



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特殊灭火方法: 无可用数据。

消防员防护装备: 穿戴自给正压式呼吸器(SCBA); 消防专用服仅提供有限的保护。

第六部分 泄漏应急处理

作业人员防护措施、防护装备和应急处置程序: 穿上保护装备。作为一个紧急预防措施, 泄露区域四周必须被隔离至少50m; 撤离无关人员; 停留在上风向; 远离低洼地区; 进入封闭区域前先通风。大量泄漏: 考虑下风向四周初始疏散距离至少100m。

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

泄漏化学品的收容、清除方法及所使用的处置材料: 消除所有点火源(泄露区附近严禁吸烟、点火、火花或其他明火); 不要触摸或在泄露的货物上行走; 用土、沙或其他不可燃物品吸收; 漏损的电池和污浊的吸附物应放入金属容器。

防止次生灾害的预防措施:

所有废弃物必须参照联合国, 国家, 地方性法规进行处置。

有关安全处理的资料请参阅第7部分。

有关个人防护装备的资料请参阅第8部分。

有关弃置的资料请参阅第13部分。

第七部分 操作处置与储存

操作处置:

避免短路电池。避免电池的机械损坏。不要打开或拆卸。电池在拆开, 挤压, 遇火或高温情况下, 会引起起火或爆炸, 严禁短路或非正确操作。防止所有接触, 包括吸入。当有接触危险时, 穿戴防护服。在通风良好的区域使用。防止本品在低洼处汇集。

储存:

储存在一个低温, 干燥, 通风良好的环境。远离热源, 避免长时间阳光照射。

第八部分 接触控制/个体防护

控制参数:

CAS No.	ACGIH	NIOSH	OSHA
7782-42-5	TLV-TWA 2mg/m ³	REL-TWA 2.5mg/m ³	PEL-TWA 15mppcf PEL-TWA 20mppcf
7440-50-8	TLV-TWA 0.2mg/m ³ TLV-TWA 1mg/m ³	REL-TWA 1mg/m ³ REL-TWA 0.1mg/m ³	PEL-TWA 0.1mg/m ³ PEL-TWA 1mg/m ³



7429-90-5	TLV-TWA 1mg/m ³	REL-TWA 2mg/m ³ REL-TWA 5mg/m ³ REL-TWA 10mg/m ³	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
21324-40-3	N/A	N/A	N/A
24937-79-9	N/A	N/A	N/A

适当的工程控制: 当处理化学物品时, 应遵循一般的预防措施。

远离食品, 饮料和饲料。

立即脱掉所有脏衣服或被污染的衣物。

在休息之前和工作结束之后洗手。

个体防护装备:

呼吸系统防护: 佩戴合适的防护口罩以减少呼吸系统接触。大量泄漏时, 穿戴化学防护服包括自给式呼吸器。

手防护: 佩戴合适的防护手套以减少皮肤接触。

眼睛防护: 佩戴安全护目镜或眼睛防护结合呼吸防护。

皮肤和身体防护: 工作环境需要时, 穿着合适的防护服以减少皮肤接触。防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择。

第九部分 理化特性

有关基本物理及化学特性的信息

外观与性状:	灰色, 圆柱形。
气味:	无资料。
pH值, 并指明浓度:	无资料。
熔点/凝固点 (°C):	无资料。
沸点、初沸点和沸程:	无资料。
闪点:	无资料。
爆炸极限:	无资料。
蒸气压:	无资料。
蒸气密度:	无资料。
密度/相对密度:	无资料。
溶解性:	无资料。
n-辛醇/水分配系数:	无资料。
自燃温度:	无资料。
分解温度:	无资料。
气味阈值:	无资料。
蒸发速率:	无资料。
易燃性(固体、气体):	无资料。



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其他信息

电压	3.7V
电容量	0.5Ah
电能	1.85Wh

第十部分 稳定性和反应活性

稳定性: 在正常环境温度下储存和使用稳定。

危险反应: 无可数据。

应避免的条件: 火焰, 火花和其他热源, 禁忌物。

禁配物: 氧化剂, 酸, 碱。

危险分解产物: 二氧化碳, 一氧化碳, 锂的金属氧化物, 其他刺激性和毒性气体。

第十一部分 毒理学资料

急性毒性

CAS No.	LC50/LD50
7782-42-5	No data available.
7440-50-8	No data available.
7429-90-5	No data available.
21324-40-3	No data available.
24937-79-9	No data available.

皮肤刺激/腐蚀: 无可数据。

眼睛刺激/腐蚀: 无可数据。

呼吸或皮肤过敏: 无可数据。

生殖细胞突变性: 无可数据。

致癌性: 无可数据。

生殖毒性: 无可数据。

特异性靶器官系统毒性——一次性接触: 无可数据。

特异性靶器官系统毒性——反复接触: 无可数据。

吸入危害: 无可数据。

潜在的有害效应: 无可数据。

第十二部分 生态学资料



生态毒性: 无可用数据。

持久性和降解性: 无可用数据。

潜在的生物累积性: 无可用数据。

土壤中的迁移性: 无可用数据。

其他有害效应: 无可用数据。

第十三部分 废弃处置

废弃处置方法

建议:

请参考国家和地方的相关法规正确进行处理。

受污染的容器和包装

建议: 必须根据官方的规章来丢弃。

第十四部分 运输信息

联合国危险货物编号 (UN 号)	
IATA	UN3481
IMDG	UN3481
Model Regulation	UN3481
UN 运输专用名称	
IATA	锂离子电池装在设备中
IMDG	锂离子电池装在设备中
Model Regulation	锂离子电池装在设备中
运输危险等级	
IATA	9
IMDG	9
Model Regulation	9
包装组别	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
包装标志	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
危害环境	



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海运污染物质:	不是
用户特别预防措施	无资料

运输信息: 该锂离子电池 1340 已通过UN38.3测试, 报告编号为MLIYI2GB82328521。

运输过程中请根据危险品规则DGR第60版包装规定967第2部分执行。

运输过程中请根据海运危险品规则IMDG (38-16)特殊规定188, 或者《联合国危险货物运输的建议书规章范本》(20th) 特殊规定188执行, 该物品不受本规则其它规定限制。

备注: 电池净重<5kg。(空运, 电池装在设备中运输)

运输方式: 空运, 海运, 铁路, 公路。

第十五部分 法规信息

物质或混合物的安全, 健康和环境的规章 /法规信息

CAS No.	TSCA	IECSC	DSL/NDL	EINECS/ ELINCS/ NLP
7782-42-5	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
21324-40-3	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed

第十六部分 其他信息

编制时间: 2019-01-04

编制部门: 技术部

修改说明:

注: 本份MSDS中的信息只是基于我们当前的所拥有的相关材料的信息而编制的, 只是为了描述本品的健康、安全与环境需求, 以使各有关方面能更好地了解和信任本产品。这些信息只是提供给您, 以供考虑、研究和确认。其中的一些危害预防措施描述并非唯一的。所以本份MSDS不能作为使用本品实现任何特定目的的保证。各有关使用者有责任预先完成本品的安全性及其他方面的测试, 以评判其是否满足您的使用目的。



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缩略语和首字母缩写

ACGIH: 美国政府及工业卫生协会 (American Conference of Governmental Industrial Hygienists)

BCF: 生物浓缩因子 (Bioconcentration Factor)

BOD: 生化需氧量 (Biochemical oxygen demand);

CAS: 化学文摘社 (Chemical Abstracts Service);

EC50: 半数效应浓度 (Median effective concentration);

IARC: 国际癌症研究中心 (International Agency for Research on Cancer);

IATA: 国际空运联合会 (International Air Transport Association);

IECSC: 中国现有化学品名录 (Inventory of Existing Chemical Substances in China);

IMDG: 国际海运危险货物 (International Maritime Dangerous Goods);

LC50: 半数致死浓度 (lethal concentration, 50 percent kill);

LD50: 半数致死剂量 (lethal dose, 50 percent kill);

NIOSH: 美国国家职业安全健康研究所 (US National Institute for Occupational Safety and Health);

NOEC: 无可观察效应浓度 (No observed effect concentration);

NTP: 美国国家毒理学项目 (US National Toxicology Program);

OSHA: 美国职业安全与卫生管理局 (US Occupational Safety and Health);

PC-STEL: 短时间接触容许浓度;

PC-TWA: 时间加权平均容许浓度;

PEL: 容许暴露限值 (Permissible Exposure Level);

REL: 推荐的接触限值 (Recommended Exposure Limit);

RTECS: 化学物质毒性作用登记 (Registry of Toxic Effects of Chemical Substances);

STEL: 短期接触限值 (Short Term Exposure Limit);

TDG: 联合国关于危险货物运输的建议书规章范本 (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TLV: 阈限值 (Threshold Limit Value);

TOC: 总有机碳 (Total Organic Carbon);

TSCA: 美国有毒物质控制法 (Toxic Substances Control Act of USA);

TWA: 时间加权平均 (Time Weighted Average)

报告结束

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Pony Testing International Group

Report No.: MMIEQVLM81656716

MSDS Report



Sample Description
& Model

lithium ion battery 1340

Applicant

Hunan Huahui New Energy Co., Ltd

Address

No.7,Tongziba Lane,Jinxiu Road, Yiyang,Hunan



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No.: MMIEQVLM81656716

Code: PMZL1Q



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Report No.: MMIEQVLM81656716 Date: 01.04.2019 Page 1 of 10

Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.7 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Description: lithium ion battery

Sample Model: 1340

Recommended Uses: N/A

Restrictions on Use: N/A

Supplier Name: Hunan Huahui New Energy Co.,Ltd

Address: No7, Tongziba Lane, Jinxiu Road, Yiyang, Hunan

Phone Number: 0737-6189858

FAX: 0737-2633669

E-mail: 65579673@qq.com

Emergency Phone Number: 0769-81601908

Section 2 - Hazards Identification

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

Classification according to GHS

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation



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H335 May cause respiratory irritation

Precautionary statement(s):

Prevention:

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P271 Use only outdoors or in a well-ventilated area.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty water.

P321 Specific treatment (See additional emergency instructions).

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER, if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
$\text{LiNi}_x\text{Co}_y\text{Mn}_{1-x-y}\text{O}_2$	---	---	50



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Graphite	7782-42-5	231-955-3	15
Copper	7440-50-8	231-159-6	10
Aluminium	7429-90-5	231-072-3	10
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	10
Polyvinylidene fluoride resin	24937-79-9	607-458-6	5

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Personal protective equipment for first-aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Small Fire: Dry chemical, CO₂, water spray or regular foam. Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media:

No data available.

Specific Hazards arising from the chemical:

Special hazards arising from the substance or mixture



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Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in close proximity.

Specific protective actions for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions:

As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. Large Spill: Consider initial downwind evacuation for at least 100 meters (330 feet).

Protective equipment:

No data available.

Emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Absorb with earth, sand or other non-combustible material. Leaking batteries and contaminated absorbent material should be placed in metal containers.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling:

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to



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fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls/Personal Protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
7782-42-5	TLV-TWA 2mg/m ³	REL-TWA 2.5mg/m ³	PEL-TWA 15mppcf PEL-TWA 20mppcf
7440-50-8	TLV-TWA 0.2mg/m ³ TLV-TWA 1mg/m ³	REL-TWA 1mg/m ³ REL-TWA 0.1mg/m ³	PEL-TWA 0.1mg/m ³ PEL-TWA 1mg/m ³
7429-90-5	TLV-TWA 1mg/m ³	REL-TWA 2mg/m ³ REL-TWA 5mg/m ³ REL-TWA 10mg/m ³	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
21324-40-3	N/A	N/A	N/A
24937-79-9	N/A	N/A	N/A

Appropriate engineering controls:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Personal Protective Equipment:

Respiratory protection: Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.



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Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour:	Grey.
Physical State:	Cylindrical.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Explosion Limits (vol% in air):	Not available.
Vapour pressure, kPa at 20°C:	Not available.
Vapor density:	Not available.
Density/Relative density (water = 1):	Not available.
Solubility(ies):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Other information:	
Voltage	3.7V
Electric capacity	0.5Ah
Electric Energy	1.85Wh

Section 10 - Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatible materials: Oxidizing agents, acid base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide



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fumes.

Section 11 - Toxicological Information

Acute Toxicity:

CAS No.	LC50/LD50
7782-42-5	No data available.
7440-50-8	No data available.
7429-90-5	No data available.
21324-40-3	No data available.
24937-79-9	No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitization: No data available.

Germ Cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure: No data available.

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: No data available.

Eye: No data available.

Skin: No data available.

Ingestion: No data available.

Inhalation: No data available.

Section 12 - Ecological Information

Ecological Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.



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Section 13 - Disposal Considerations

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN Number	
IATA	UN3481
IMDG	UN3481
Model Regulation	UN3481
UN Proper shipping name	
IATA	Lithium ion batteries contained in equipment
IMDG	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
Model Regulation	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
Transport hazard class(es)	
IATA	9
IMDG	9
Model Regulation	9
Packing group	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Packaging Sign	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	No information available.

Transport information: The lithium ion battery 1340 has passed the test UN38.3, according to the report ID: MLIYI2GB82328521.



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According to the Packing Instruction 967 section II of IATA DGR 60th Edition for transportation.

According to the special provision 188 of IMDG (38-16) or the special provision 188 of <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th). The goods are not subject to other provision of this code.

Note: Batteries weight in the package <5kg. (By air, Batteries installed in equipment)

Transport Fashion: By air, by sea, by railway, by road.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
7782-42-5	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
21324-40-3	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Time: 2019-01-04

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that



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exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

End of report

Test Report (SVHC)

No. CANEC1916999909

Date: 03 Sep 2019

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DONG GUAN TN SILICONE TECHNOLOGY CO.,LTD
DONGAO INDUSTRIAL AREA TIANRAOBU VILLAGE HENGLI TOWN DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Liquid Silicone Rubber

SGS Job No. : CP19-047469 - SZ
Model No. : LSR7160A/B
Client Ref. Info. : LSR7XXXA/B、LSR9XXXA/B
Date of Sample Received : 28 Aug 2019
Testing Period : 28 Aug 2019 - 03 Sep 2019
Test Requested : As requested by client, SVHC screening is performed according to:
(i) Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Results : Please refer to next page(s).

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
---	------

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



Violet,Shi
Approved Signatory



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

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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Test Report (SVHC)

No. CANEC1916999909

Date: 03 Sep 2019

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
2.1 Concerning article(s):
Communication:
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



Test Report (SVHC)

No. CANEC1916999909

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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-169999.001	Colorless translucent silicone rubber

Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



Test Report (SVHC)

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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Guangzhou Branch Testing Center Chemical Laboratory

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Test Report (SVHC)

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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.
Please refer to Appendix for the full list of tested SVHC.
 2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
 3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
 - ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
- For detail information, please refer to the SGS REACH website:
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>
4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
 6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
 7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).



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Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) ^Δ	25637-99-4,3194-55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Diethyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Triethyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Test Report (SVHC)

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050



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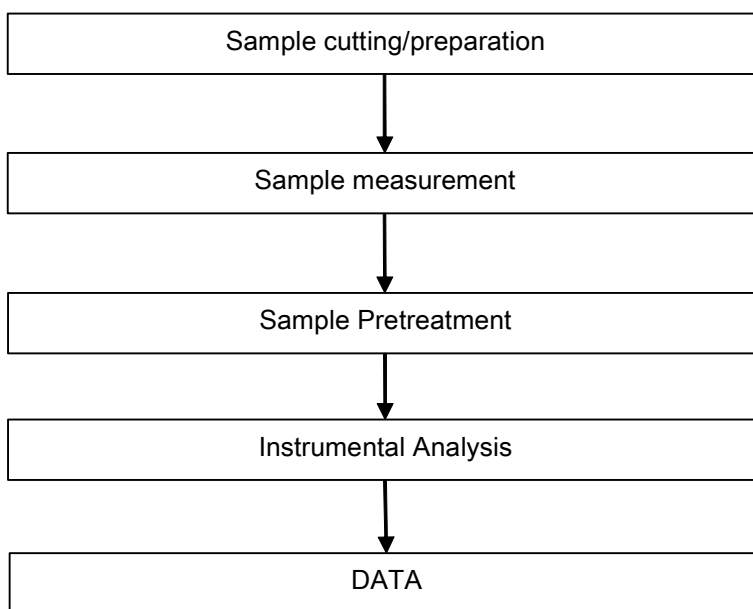
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SVHC Testing Flow Chart



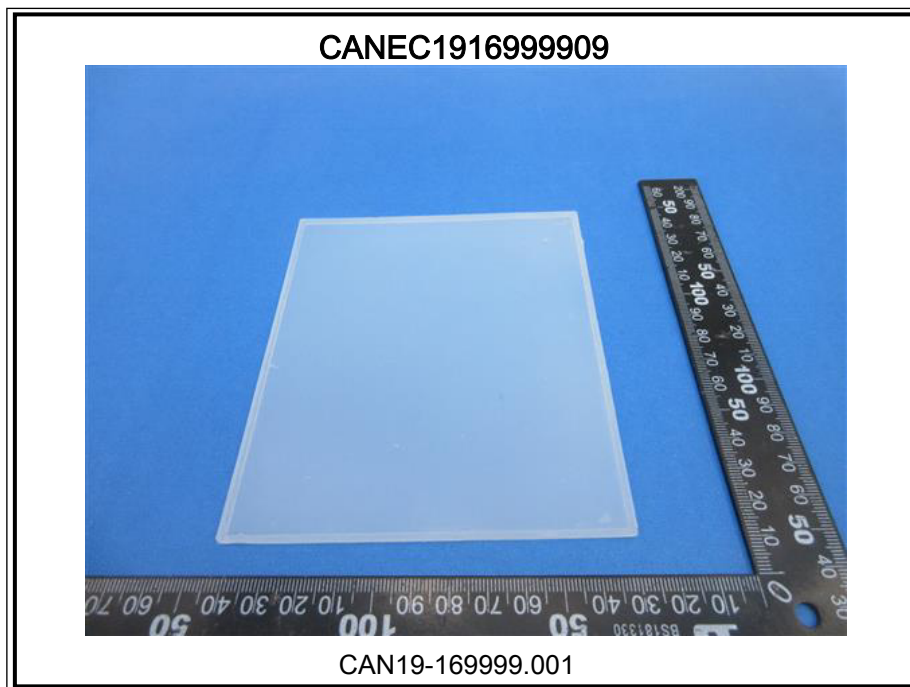
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Sample photo:



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*** End of Report ***



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Test Report

No. CANEC1916999901

Date: 03 Sep 2019

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DONG GUAN TN SILICONE TECHNOLOGY CO.,LTD

DONGAO INDUSTRIAL AREA TIANRAOBU VILLAGE HENGLI TOWN DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Liquid Silicone Rubber

SGS Job No. : CP19-047469 - SZ

Model No. : LSR7160A/B

Client Ref. Info. : LSR7XXXA/B、LSR9XXXA/B

Date of Sample Received : 28 Aug 2019

Testing Period : 28 Aug 2019 - 03 Sep 2019

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).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Violet Shi

Violet, Shi
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-169999.001	Colorless translucent silicone rubber

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit	MDL	001
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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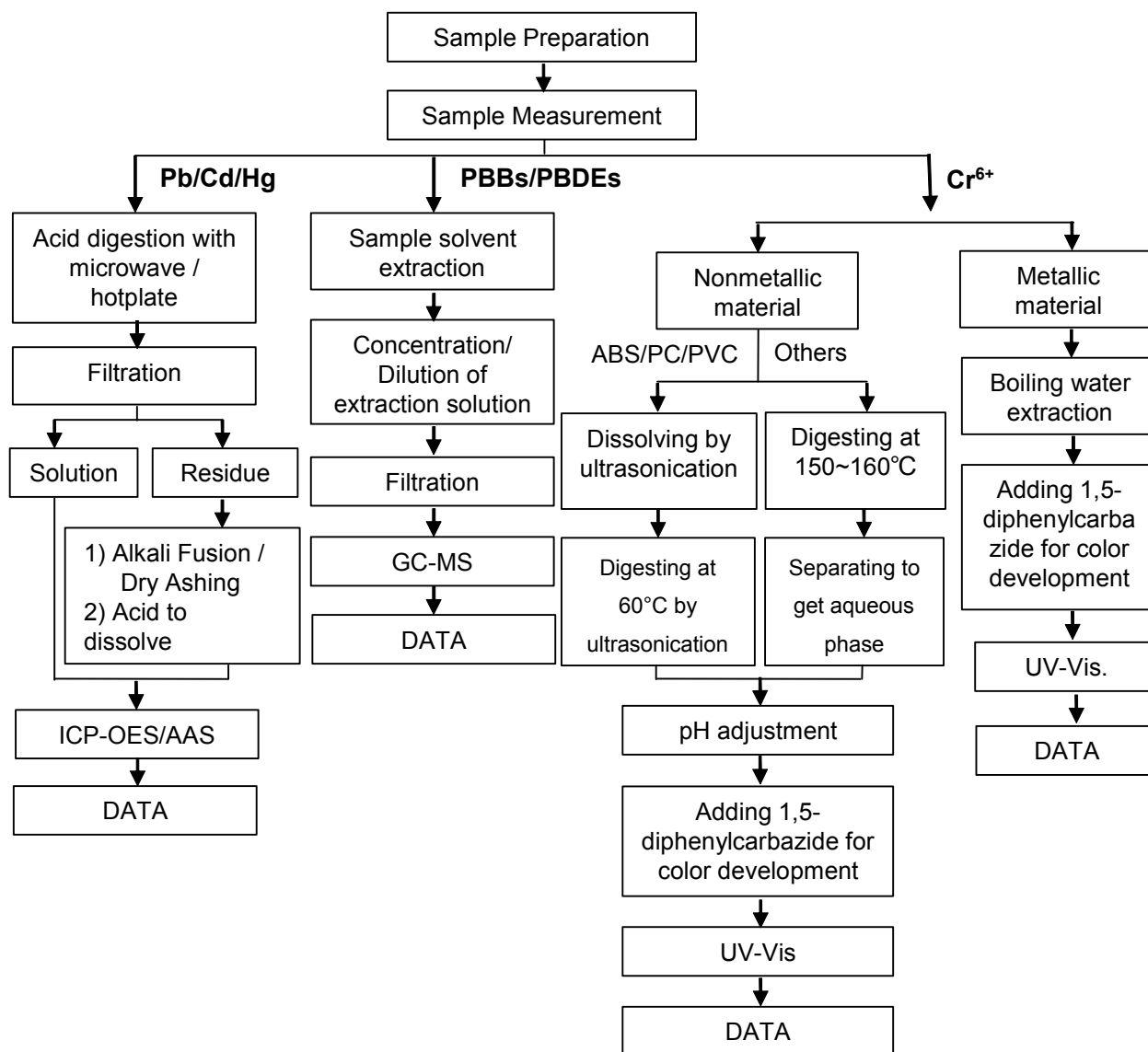
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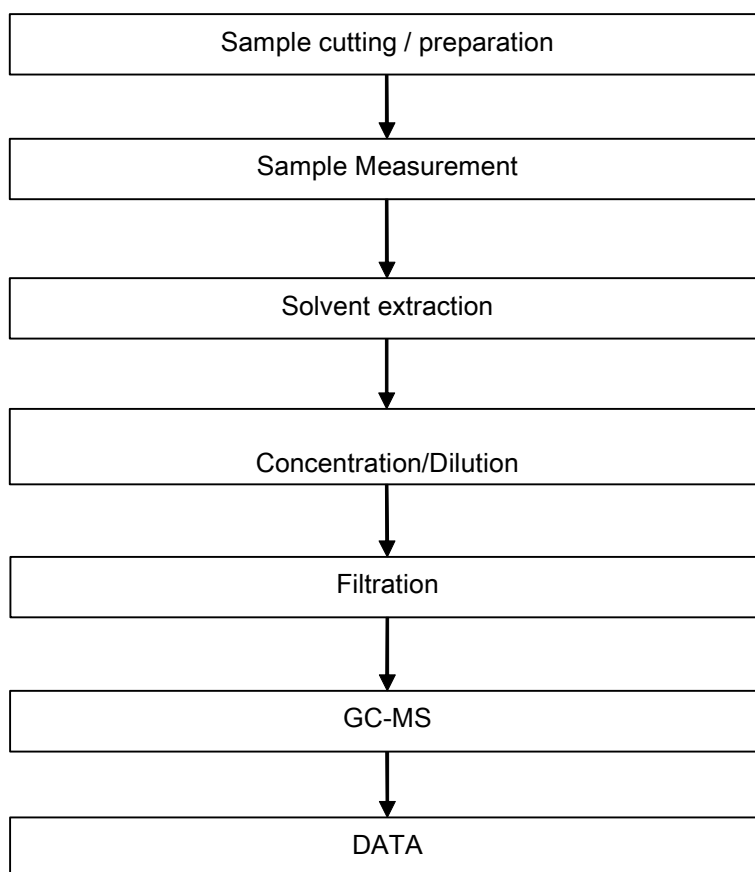
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Phthalates Testing Flow Chart



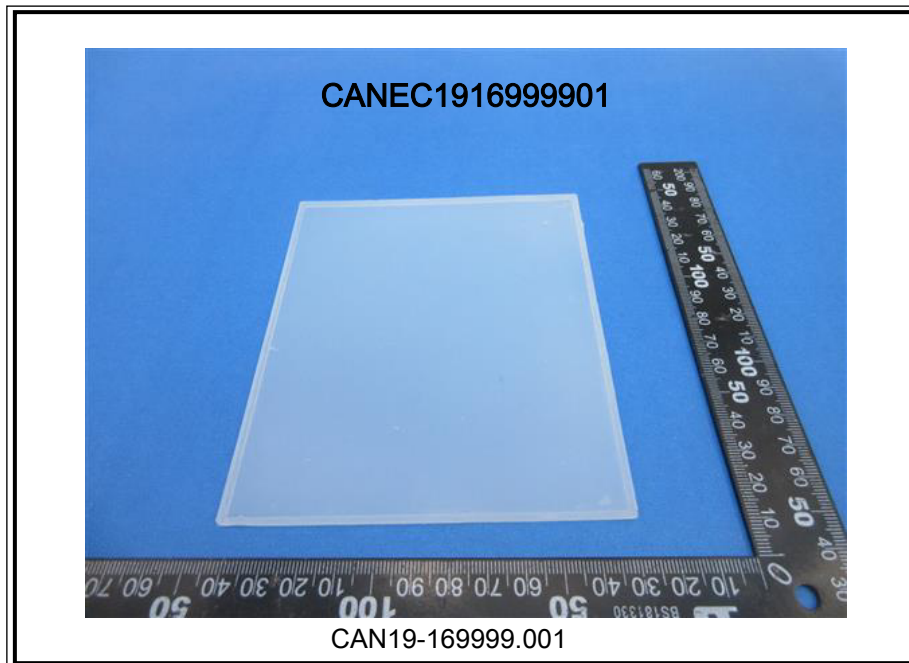
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Sample photo:



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V-love toothbrush problem summary

深爱牙刷问题汇总

一. function

一、功能篇

1. Is the toothbrush waterproof

1、牙刷防水么？

The whole machine is waterproof, anti-leaching, and the waterproof grade is up to the international standard IPX7. Even if it is in the depth of 1 meter, it doesn't matter, and it won't enter the interior.

整机防水，防浸型，防水等级达到国际标准IPX7，即使放1米深水里也没关系，也不会进入内部。

2. Anti-collision of toothbrush

2、牙刷防摔么？

Anti - slam design, careless slide will not affect the use.

防摔设计，不小心滑落也不会影响使用。

3. Three functions?

3、三大功能？

Brush cleaning: one - strong brushing, two - comfortable teeth, different strength, self - choice.

Gingival massage: gear 3 - gingival massage, promote blood circulation, let us have healthy mouth.

Cold light whitening: blue light with tooth whitening gel, 7~15 days to give you a big white tooth.

刷牙清洁：档位一-强力刷牙，档位二-舒适洁牙，力度不同，自我选择。

护龈按摩：档位三-牙龈按摩，促进血液循环，让我们拥有健康口腔。

冷光美白：蓝光照射搭配牙齿美白凝胶，7-15天让你拥有一口大白牙。

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4、人工智能

Deep love toothbrush light press on, continuously light press switch different mode; Long press shutdown;

Memory function: the current opportunity to restore the mode of the last shutdown;

Automatic function: clean teeth, gingival mode to 45 seconds automatically shutdown; Cold light whitening mode automatic shutdown for 15 minutes.

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深爱牙刷轻按开机，连续轻按切换不同的模式；长按关机；

记忆功能：当下次开机会恢复到上次关机时的模式；

自动功能：洁牙、护龈模式到45秒自动关机；冷光美白模式15分钟自动关机。

有深爱的顾客说：遇到过某大牌的电动牙刷放在行李箱里，出行振动到没电，尴尬。

5. Wireless charging

5、无线充电

The deep love of the charging base blind design, the toothbrush can be put on the charge, regardless of the right and left contact; When charging, blue light gradually changes from weak to strong. The blue light is always bright.

深爱的充电底座盲插设计，牙刷放上去就能充电，不分左右触点；充电时蓝光渐变式从弱到强变化。充满后蓝灯常亮。

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二、Cleaning

二、清洁篇

5. Can you clean it? Compared to an ordinary toothbrush and an electric toothbrush?

5、能刷干净么？跟普通牙刷和电动牙刷相比呢？

Everyone don't think the silicone inertia hair brush clean, love the design concept of the toothbrush is follow the pap brush method recommended by the American dental association, the bristles with the long axis of the teeth a 45 ° Angle, can effectively clean teeth, teeth, gums ditch dirty things.

Correct use of toothbrush: when brushing your teeth with a deep love toothbrush, you should shake more than 63 times per minute with the manual and the left and right sides of the hand, which is more clean than the traditional brush with ordinary electric teeth. Deep love for 45 seconds is about the same as a traditional electric toothbrush for 6 minutes!

The cleanliness of ordinary toothbrush is about 76%. The cleanliness of traditional electric toothbrush is about 90%. More than 95 percent of the cleanliness of the toothbrush;

大家惯性觉得硅胶没有毛刷刷的干净，深爱牙刷的设计原理是遵循美国牙科协会推荐的巴氏刷牙法设计，刷毛与牙长轴呈45°角，可更有效清理牙面、牙缝、牙龈沟的脏东西。

正确使用牙刷的步骤：用深爱牙刷刷牙时，配合手动上下左右内外每分钟摇动63次以上，比传统跟普通电动牙刷刷的都要干净！深爱45秒洁牙约相当于传统电动牙刷6分钟！

普通牙刷的清洁度，大概达到76%；传统的电动牙刷的清洁度，大概达到90%；深爱牙刷的清洁度95%以上；

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6、牙刷不是特别整齐，感觉有点刷不到怎么办？

Shake up and down left and right to solve.

上下左右内外摇动即可解决。

7. Is the toothbrush Easy to clean?

7、牙刷好清洗么？

Whether ordinary tooth brush head or an electric tooth brush head, always encounter a problem, is our residues such as green vegetables after eating pork son, brush a tooth brush head stuck in a, then wash wash not to drop, also want to use

hand to pick, is there? Deep love beauty white toothbrush, the silica gel head is washed very clean, the next day brush dry dry, after use before use, rinse can.

不管是普通牙刷刷头还是电动牙刷刷头，总会遇到一个问题，就是我们吃完东西的残留物比如青菜啊肉丝儿啊，刷完牙卡在刷头里，这时候冲洗还洗不掉，要用手去抠，有没有？深爱美白牙刷，硅胶头冲洗后就很干净了，第二天刷牙干干的，每次用前用后冲洗即可。

8. With a deep love toothbrush, do you need to work with the brush manually?

8、用深爱牙刷，需要手动配合刷么？

1, the sound wave vibration is up and down, so want to sway to clean our teeth;

2. The braces are universal and need to be moved up and down to clean the teeth inside.

一、声波振动是上下，所以要左右摇动去清洁我们的牙齿；

二、牙套是通用型，需要左右上下里外摇动，才能清洁到里面的牙齿。

9、How many stalls do you brush? Is it too much to shock?

9、刷牙几个档位？会不会震的受不了？

Gear 1: strong brush teeth; Gear 2: comfortable cleaning teeth. 45 seconds automatic shutdown, select the appropriate gear.

档位一：强力刷牙；档位二：舒适洁牙。45秒自动关机，选择合适自己的档位即可。

10. Is it easy to produce bacteria after this toothbrush is used?

10、这个牙刷用完后容易产生细菌么？

The beloved silicone toothbrush head is not easy to contaminate the bacteria! Deep love of beauty white toothbrush is a rinse with water after use before use, and a sling has little water, the second day of the silica gel is completely dried up, and charging the blue gradient, blue lights up when you brush your teeth 406 microns between visible light blue; Bactericidal effect. , kill all common and electric toothbrushes in seconds.

深爱的硅胶牙刷头不容易沾染细菌！深爱美白牙刷在用前用后都用水冲一下，而且一甩就没什么水了，第二天的硅胶是完全干了的状态，而且充电时蓝光渐变、刷牙时蓝灯点亮有406μm蓝色之间的可见光；杀菌效果。，这一点秒杀所有常见的普通及电动牙刷。

If it's an ordinary bristle brush, it's almost perfect! Because it's a normal or electric toothbrush and it doesn't matter if you put the cover on the top of your head, it's still wet, it's very easy to grow bacteria.

如果是普通的毛刷的细菌那是简直了！因为换是普通或者电动牙刷不管你套不套刷头的盖子就算放那儿两天刷头还是湿的，湿的很容易滋生细菌。

三、Gingival passage

三、护龈篇

11, do not brush gum to do?

11.刷不到牙龈怎么办？

Ordinary toothbrushes are not covered by the gums. Ordinary electric toothbrushes are more likely to brush the gums and hurt the gums. The cleanliness of the gums depends mainly on good eating habits and care, so the dentist has the word for the gingival. The third gear of the full-automatic toothbrush: gingival massage can promote the blood circulation of the gums and give you a healthy gum. At the same time, because the bristles of the deep love toothbrush are silicone,

本身一般普通的牙刷也是刷不到牙龈的，普通的电动牙刷更不能直接刷牙龈、对牙龈会伤害到；牙龈的清洁主要靠良好的饮食习惯与护理，所以牙医都有健齿护龈的说法；深爱美白全自动牙刷的第3个档位：牙龈按摩的，可以促进牙龈的血液循环，还你一口健康的牙龈。同时因为深爱牙刷的刷毛是硅胶的，

12、How is the gum protection?

12、牙龈保护度怎样？

Deep love is 41% higher than conventional electric toothbrush.

General electric toothbrush is 32% higher than manual toothbrush.

牙龈保护度，深爱比普通电动牙刷高41%

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四、Accessories

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13. Charging status

13、充电状态

When charging, the light is flashing, full of light, it will take about 2 hours.

充电时灯闪，充满灯常亮，大概需要2个小时左右。

14.How often do you recharge?

14、多久充电一次

Full charge can be used about 22 times, normal use 10 days to charge.

充满一次电大概可以使用22次左右，一般正常使用10天冲一次电。

15.How long will the mousse last?

15、慕斯能用多久？

A bottle of 60 ml is about a month.

一瓶60毫升大概用一个月左右。

16. Can mousse replace toothpaste?

16.慕斯可以代替牙膏么？

Yes, it's a foam toothpaste, a unique photocatalyst patented technology that gives you a high quality oral experience. In addition to normal teeth cleaning and good taste, we also whiten our teeth. Brush teeth everyday to maintain.

没错，亲，洁牙慕斯就是泡沫牙膏，自身独特的光触媒专利技术，带给你高品质的口腔体验。，除了正常刷牙清洁、口感很棒之外，还顺带美白了我们的牙齿。天天刷牙天天保持。

17. Can mousse buy it alone?

17.慕斯可以单买么？

Yes, it's 19.9 yuan a bottle.

是的，一瓶单卖19.9元，

18. How to sell the whitening gel?

18.美白凝胶怎么卖？

White gel a 3 ml, unit price 29.9 yuan.

19. Use of gel.

19、凝胶的使用方法

When you don't brush your teeth, cleaning, and dry moisture, please put gel inside the braces, takes about 15 to 20 days whitening teeth, this component is not big, only 3 ml, in 3 days, later want to buy whitening repair gel.

However, we recommend that you start with mousse toothpaste and brush your teeth for 30 days or more, and the brush will be whiter and whiter.

当你不刷牙时，冲洗牙套，并甩干水分，请将凝胶涂在牙套内侧，需要大概15天到20天美白牙齿，这个赠送的分量不大，只有3毫升，用3天的，后续想美白再补买凝胶。

不过我们建议先从慕斯牙膏刷牙开始，大概刷30天以上，越刷越白，健康白。

20. Why do children love toothbrushes?

20、儿童为什么要用深爱牙刷

Children need to use silicone toothbrushes most, never hurt the gums, because everyone knows that the gums are good teeth. Effectively inhibit gum bleeding inflammation.

小孩最需要用硅胶牙刷，永远不伤牙龈，因为大家都知道牙龈好才能牙齿好。有效抑制牙龈出血发炎。

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18. Can mousse replace toothpaste?慕斯可以代替牙膏么？

Yes, it's a foam toothpaste, a unique photocatalyst patented technology that gives you a high quality oral experience. In addition to normal teeth cleaning and good taste, we also whiten our teeth. Brush teeth everyday to maintain.

没错，亲，洁牙慕斯就是泡沫牙膏，自身独特的光触媒专利技术，带给你高品质的口腔体验。，除了正常刷牙清洁、口感很棒之外，还顺带美白了我们的牙齿。天天刷牙天天保持。

19. Can mousse buy it alone?慕斯可以单买么？

Yes, it's 19.9 yuan a bottle.

是的，一瓶单卖19.9元，

20. How to sell the whitening gel?白凝胶怎么卖？

White gel a 3 ml, unit price 29.9 yuan.

21. Use of gel.凝胶的使用方法

When you don't brush your teeth, cleaning, and dry moisture, please put gel inside the braces, takes about 15 to 20 days whitening teeth, this component is not big, only 3 ml, in 3 days, later want to buy whitening repair gel.

However, we recommend that you start with mousse toothpaste and brush your teeth for 30 days or more, and the brush will be whiter and whiter.

当你不刷牙时，冲洗牙套，并甩干水分，请将凝胶涂在牙套内侧，需要大概15天到20天美白牙齿，这个赠送的分量不大，只有3毫升，用3天的，后续想美白再补买凝胶。

不过我们建议先从慕斯牙膏刷牙开始，大概刷30天以上，越刷越白，健康白。

22. Why do children love toothbrushes?儿童为什么要用硅胶牙刷

Children need to use silicone toothbrushes most, never hurt the gums, because everyone knows that the gums are good teeth. Effectively inhibit gum bleeding inflammation.

小孩最需要用硅胶牙刷，永远不伤牙龈，因为大家都知道牙龈好才能牙齿好。有效抑制牙龈出血发炎。

U型电动牙刷问题汇总

一、功能篇

1.牙刷防水么？

整机防水，防浸型，防水等级达到国际标准IPX7，即使放1米深水里也没关系，也不会进入内部。

2.牙刷防摔么？

防摔设计，不小心滑落也不会影响使用。

3.三大功能？

刷牙清洁：档位一-强力刷牙，档位二-舒适洁牙，力度不同，自我选择。

护龈按摩：档位三-牙龈按摩，促进血液循环，让我们拥有健康口腔。

冷光美白：蓝光照射搭配牙齿美白凝胶，7~15天让你拥有一口大白牙。

4.人工智能

牙刷轻按开机，连续轻按切换不同的模式；长按关机；

记忆功能：当下次开机恢复上次关机时的模式；

自动功能：洁牙、护龈模式到45秒自动关机；冷光美白模式15分钟自动关机。

有顾客说：遇到过某大牌的电动牙刷放在行李箱里，出行振动到没电，尴尬。

5.无线充电

充电底座盲插设计，牙刷放上去就能充电，不分左右触点；充电时蓝光渐变式从弱到强变化。充满后蓝灯常亮。

6.牙刷的四大亮点

科技领先-全球首创U型牙刷，操作更简单。

懒人神器-45秒快速刷牙，相当于普通牙刷6分钟的刷牙效果

清洁能手-360度无死角洁牙，里里外外上上下下左左右右的死角全扫光。

极高颜值-打造牙刷行业的“苹果”，自带底座稳当当。

二、清洁篇

7.能刷干净么？跟普通牙刷和电动牙刷相比呢？

大家惯性觉得硅胶没有毛刷刷的干净，U型牙刷的设计原理是遵循美国牙科协会推荐的巴氏刷牙法设计，刷毛与牙长轴呈45°角，可更有效清理牙面、牙缝、牙龈沟的脏东西。

正确使用牙刷的步骤：用深爱牙刷刷牙时，配合手动上下左右内外每分钟摇动63次以上，比传统跟普通电动牙刷刷的都要干净！深爱45秒洁牙约相当于传统电动牙刷6分钟！

普通牙刷的清洁度，大概达到76%；传统的电动牙刷的清洁度，大概达到90%；深爱牙刷的清洁度95%以上；

8.牙刷不是特别整齐，感觉有点刷不到怎么办？

上下左右内外摇动即可解决。

9.牙刷好清洗么？

不管是普通牙刷刷头还是电动牙刷刷头，总会遇到一个问题，就是我们吃完东西的残留物比如青菜啊肉丝儿啊，刷完牙卡在刷头里，这时候冲洗还洗不掉，要用手去抠，有没有？深爱美白牙刷，硅胶头冲洗后就 very 干净了，第二天刷牙干干的，每次用前用后冲洗即可。

10.用深爱牙刷，需要手动配合刷么？

- 一、声波振动是上下，所以要左右摇动去清洁我们的牙齿；
- 二、牙套是通用型，需要左右上下里外摇动，才能清洁到里面的牙齿。

11、刷牙几个档位？会不会震的受不了？

档位一：强力刷牙；档位二：舒适洁牙。45秒自动关机，选择合适自己的档位即可。

12.这个牙刷用完后容易产生细菌么？

硅胶牙刷头不容易沾染细菌！美白牙刷在用前用后都用水冲一下，而且一甩就没什么水了，第二天的硅胶是完全干了的状态，而且充电时蓝光渐变、刷牙时蓝灯点亮有406nm蓝色之间的可见光；杀菌效果。，这一点秒杀所有常见的普通及电动牙刷。

如果是普通的毛刷的细菌那是简直了！因为换是普通或者电动牙刷不管你套不套刷头的盖子就算放那儿两天刷头还是湿的，湿的很容易滋生细菌。

三、护龈篇

13.刷不到牙龈怎么办？

本身一般普通的牙刷也是刷不到牙龈的，普通的电动牙刷更不能直接刷牙龈、对牙龈会伤害到；牙龈的清洁主要靠良好的饮食习惯与护理，所以牙医都有健齿护龈的说法；深爱美白全自动牙刷的第3个档位：牙龈按摩的，可以促进牙龈的血液循环，还你一口健康的牙龈。同时因为深爱牙刷的刷毛是硅胶的。

14、牙龈保护度怎样？

牙龈保护度，深爱比普通电动牙刷高41%
普通电动牙刷，比普通手动牙刷高32%

四、配件篇

15.充电状态

充电时灯闪，充满灯常亮，大概需要2个小时左右。

16.多久充电一次

充满一次电大概可以使用22次左右，一般正常使用10天冲一次电。

17.慕斯能用多久？

一瓶60毫升大概用一个月左右。

18.慕斯可以代替牙膏么？

没错，亲，洁牙慕斯就是泡沫牙膏，自身独特的光触媒专利技术，带给你高品质的口腔体验。，除了正常刷牙清洁、口感很棒之外，还顺带美白了我们的牙齿。天天刷牙天天保持。

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CERTIFICATION OF REGISTRATION

2019

Establishment:**HONG KONG I-LOVE TECHNOLOGY GROUP CO., LIMITED.**

Rm 1005,10/F Ho King Comm Ctr, 2-16 Fa Yuan St Mongkok, KI, HONG KONG, CHINA, 999077.

Registration Number: 3014383602**Registration Number/ FEI Number*:** 3014383602**Status:** Active**Date Of Registration Status:** 2019**Owner/Operator****HONG KONG I-LOVE TECHNOLOGY GROUP CO., LIMITED.**

Rm 1005,10/F Ho King Comm Ctr, 2-16 Fa Yuan St Mongkok, KI, HONG KONG, CHINA, 999077.

Owner/Operator Number: 10057336**Official Correspondent****Contact Name:** Jiawei Song

Rm 1005,10/F Ho King Comm Ctr, 2-16 Fa Yuan St Mongkok, KI, HONG KONG, CHINA 999077

Phone: 852-275-06952

E-mail: jiawei@sure-power.com.cn**Devices Listing Information**

Proprietary Name	Product Codes	Device Class	Listing Number	Establishment Operations
Cold light whitening 360 intelligent fully automatic mouth cleaner, SA-VW- 520, ELECTRIC TOOTHBRUSH, SA-VW- 7017	JEQ	1	D318449	Manufacturer

 Please careful protect your Listing Number.**Shenzhen CID Testing Technology Co., Ltd**

Add: RM 1305,Guangfu Building, Baoyuan RD. Xixiang Block, Baoan District, Shenzhen,Guangdong,China

Web: <http://www.cid-test.com>

Tel: +86-755-85252582



CERTIFICATION OF REGISTRATION

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FDA CERTIFICATION OF REGISTRATION

2020

This certifies that:

HONG KONG I-LOVE TECHNOLOGY GROUP CO.,LIMITED

Rm 1005,10/F Ho King Comm Ctr, 2-16 Fa Yuan St Mongkok, K1, HONG KONG 999077 ,CHINA

Was registered with US Food and Drug Administration, Center for Devices and Radiological Health, pursuant to the Code of Federal Regulations 21 CFR 807, by Shenzhen CID Testing Technology Co., Ltd.

Registration Number: 3014383602

Registration Number/ FEI Number*: 3014383602

Owner/Operator Number: 10057336

Proprietary Name	Product Codes	Device Class	Listing Number	Establishment Operations
Cold light whitening 360 intelligent fully automatic mouth cleaner; ELECTRIC TOOTHBRUSH; SA-VW-520; SA-VW-7017; SA-1-V1 PLUS-L1; SA-1-V1 PLUS-L2; SA-1-V1 PLUS-M1; SA-1-V1 PLUS-M2; SA-1-V1 PLUS-M3; SA-1-V1 PLUS-M4; SA-1-S1 PLUS-1; SA-1-S1 PLUS-2; SA-1-C1 PLUS-1; SA-1-C1 PLUS-2; ULU; BLU.	<u>JEQ</u>	1	<u>D318449</u>	Manufacturer



Shenzhen CID Testing Technology Co., Ltd.

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