

### **Test report**



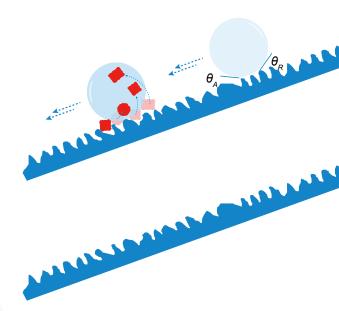
**Committed to providing a full range of glass easy cleaning products** From Smartguard coating supply, customized Smartguard production line equipment, display equipment, production tools, to personalized service solutions, we provide one-stop glass easy clean technology service.



### Achieve the peak for easy glass surface treatment technology

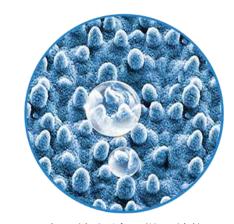
#### **Technology** Overview

The unique modified group of the coating molecule can greatly improve the hydrophobic and oleophobic ability of the coating, and form a microstructure similar to the surface of the lotus leaf, allowing the glass to achieve an easy decontamination effect similar to the lotus leaf effect.



运用标准的施工方法,让涂料与玻璃表面的二氧化硅充分结合,通 过分子间的相互作用和新形成涂层内部网状结构变化等一系列的化 学反应,最终以化学共价键形式键合在玻璃表面,形成全透光纳米 级厚度的超薄保护涂层。该保护涂层完全覆盖在玻璃表面,从物理 层面上隔绝玻璃表面与污染物的接触,可以尽可能长时间的保持玻 璃的洁净度,不仅更易清洁,且牢固耐擦洗,满足人们对高品质生 活的追求。

Using standard coating application methods, the coating is fully combined with the silica on the glass surface, and through a series of chemical reactions such as molecular interactions and changes in the internal network structure of the newly formed coating, the final bonding is in the form of chemical covalent bonds. On the surface of the glass, an ultra-thin protective coating with full light transmission nanometer thickness is formed. The protective coating completely covers the glass surface, physically isolates the glass surface from contact with pollutants, and can maintain the cleanliness of the glass for a long time. The glass is not only easier to clean, but also firm and resistant to scrubbing, It satisfies people's pursuing of high-quality life.



睿盾纳米 涂层微观结构 Smartguard Nano Coating Micro Structure

普通玻璃表面微观结构 Untreated Glass Surface Micro Structure

在微观世界中,未经处理的玻璃 表面并不是平整、光滑的,存在 着高低起伏的峰谷。微小的灰尘 颗粒、污垢水、污染物等会侵入 到这些峰谷之中,造成难以清洁 的污渍。

In the microscopic world, the surface of untreated glass is not flat and smooth, there are undulating peaks and valleys. Tiny dust particles, dirt water, pollutants, etc. will invade these peaks and valleys, causing stains that are difficult to clean.

★ 原理示意图 Schematic diagram



### **Conclusion of test report**

Smartguard anti-soiling & Easy-to-clean coating series products have passed authoritative test of SGS, School of Materials Science and Engineering, Zhejiang University. The performance and specification achieve to China GB / T37830-2019 and RoHS Directive(EU); .

- Wear resistance passed 100000 times of test;
- Pass Detergent, Muriatic Acid, Window Cleaner resistance;

• The product is green and environmentally friendly, meets the requirements of the EU ROHS directive, and does not contain harmful fluorine-containing PFOA, PFOS compounds and their derivatives.

Smarter Surface Create More Value



Shenzhen Smartguard Nano Material CO., Ltd. 公司地址:深圳市南山区蛇口沿山路佳利泰大厦9B室 Office: Rm. 9B, Jialitai Building, Yanshan Road, Nanshan Dist., Shenzhen, China. 电话(Tel): +86–0755–26890033 / 400 1819 686 邮箱(E-mail): sale@smartguardnano.com www.smartguardnano.com





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#### CUSTOMER NAME: ADDRESS:

SHENZHEN SMARTGUARD NANO MATERIAL CO., LTD. RM.9B, JIALITAI BUILDING, YANSHAN ROAD, NANSHAN DIST., SHENZHEN, CHINA.

Sample Name

SMARTGUARD BRAND ANTI-SOILING AND EASY-TO-CLEAN

#### COATED GLASS

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No.	: CP21-004445	itus 🚿
Date of Receipt	: Jan 29, 2021	$\sim$
Testing Start Date	: Jan 29, 2021	the singe
Testing End Date	: Mar 15, 2021	autor Contraction
Test result(s)	For further details, please ref (Unless otherwise stated the the sample(s) tested)	er to the following page(s) results shown in this test report refer only to

Signed for SGS-CSTC Standards Technical Services Co., Ltd. GZ Branch Testing Center

Winnie Tan Authorized signatory



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#### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
martellard 1	Wear	With reference to GB/T 3920-	No visible change in appearance and	Pass
	Resistance Test	2008 and client's requirement	the easy-cleaning effect keeps well	1 400
D <sub>I</sub> 2	Detergent Resistance	AAMA 2605-20 Section 8.7.4	No loss of adhesion, no blistering or other visible change	Pass
3	Muriatic Acid Resistance	AAMA 2605-20 Section 8.7.1	No visual change	Pass
4 the second	Window Cleaner Resistance	AAMA 2605-20 Section 8.7.5 & ASTM D3359-17	No blistering or other visible change, no removal of film	Pass

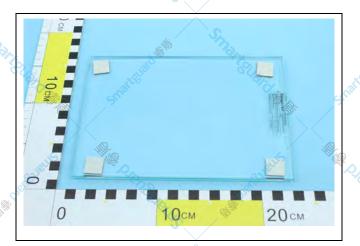
Note:

Pass : Meet the requirements;

Fail : Does not meet the requirements;

/: Not Apply to the judgment.

Original Sample Photo:





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1. Test Item: Wear Resistance Test

Sample Description: Easy-to-clean coated glass

Test Method: With reference to GB/T 3920-2008 and client's requirement

- Test Condition:
  - Load: 150g

Rubbing Material: 2 pieces of dustless cloth (provided by client)

Rubbing Finger Specification: φ10 mm

Rubbing Speed: 60cpm

Friction Times: 100000 times (once for a complete back and forth)

Stroke: 60mm

At the end of every 2500 times, observe the visual change in appearance and compare the scrubbed area with the untested sample for the easy-cleaning effect by diluted red ink solution. Test Result:

	Times	Test Results	Client's requirement	Conclusion
	2500	No visible change in appearance and	- ST	
	2300	the easy-cleaning effect keeps well	/	
	5000	No visible change in appearance and	RUS	No.
	erf617 5000	the easy-cleaning effect keeps well	20 DIENGH	tenes.
26	7500	No visible change in appearance and	The A	7-10
	7500	the easy-cleaning effect keeps well	After 100000 times of	
	10000	No visible change in appearance and	testing, the easy-	
2	10000	the easy-cleaning effect keeps well	cleaning effect of the	
6	× 12500	No visible change in appearance and	tested sample was	A SUATS
	Sing Sing	the easy-cleaning effect keeps well	basically kept consistent	Small
	15000	No visible change in appearance and	with untested sample.	
	13000	the easy-cleaning effect keeps well		All and a second s
	17500	No visible change in appearance and	Cleurs.	
P. C.	er 17300	the easy-cleaning effect keeps well	Pheno.	C. S.
<i>W</i>	20000	No visible change in appearance and	Telle M	10
	20000	the easy-cleaning effect keeps well		



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	<b>9</b>	U V	<b>.</b>	
	Times	Test Results	Client's requirement	Conclusion
	22500	No visible change in appearance and		n
ouard	22300	the easy-cleaning effect keeps well	ouard the	ALL REPORT
Canalto	25000	No visible change in appearance and	M cmatto	
7	23000	the easy-cleaning effect keeps well		AS .
	27500	No visible change in appearance and		
W. Contraction of the second s	21300	the easy-cleaning effect keeps well		ours
~1070	30000	No visible change in appearance and	-tens	187634
×.	30000	the easy-cleaning effect keeps well	J. B.	A PA
	32500	No visible change in appearance and	S.	
	32300	the easy-cleaning effect keeps well	$\sim$	C
, i	35000	No visible change in appearance and		nari
reliaro	35000 84	the easy-cleaning effect keeps well	aguato .	SC
Smaller	37500	No visible change in appearance and	After 100000 times of	
	37300	the easy-cleaning effect keeps well	testing, the easy-	Sh
- SQL	40000	No visible change in appearance and	cleaning effect of the	
N. C.	40000	the easy-cleaning effect keeps well	tested sample was	avenus
in the second	42500	No visible change in appearance and	basically kept consistent	Olenor
	42300	the easy-cleaning effect keeps well	with untested sample	
	45000	No visible change in appearance and		
	40000	the easy-cleaning effect keeps well		2
6	47500	No visible change in appearance and	8	13rt
artella	47500 80	the easy-cleaning effect keeps well	attella	SUAR
SIL	50000	No visible change in appearance and	Site	ALC: NOT
	00000	the easy-cleaning effect keeps well		
A.	52500	No visible change in appearance and		5
Stens	32300	the easy-cleaning effect keeps well	Diensieu	Stients
	55000	No visible change in appearance and		C. C
	30000	the easy-cleaning effect keeps well	Surs.	
	57500	No visible change in appearance and	$\sim$	
		the easy-cleaning effect keeps well		Sh
6	31/20			



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Γ	Times	Test Results	Client's requirement	Conclusion
artell	60000	No visible change in appearance and the easy-cleaning effect keeps well	Stnartelle	NEICO STATE
ard and	62500	No visible change in appearance and	Prof. and and a second se	195 1
ON: BE	62500	the easy-cleaning effect keeps well		
	65000	No visible change in appearance and		
ouis	05000	the easy-cleaning effect keeps well	ous the	
lengthe	67500	No visible change in appearance and	lefter the	10 no
2× 2×	013003	the easy-cleaning effect keeps well		J-IEL
-17	70000	No visible change in appearance and		S
	70000	the easy-cleaning effect keeps well	Č.e	
nar,	72500	No visible change in appearance and	mary	ALCON AND A
SUS	12300 3	the easy-cleaning effect keeps well	SUL	* Suaro
	75000	No visible change in appearance and	After 100000 times of	
-231	10000	the easy-cleaning effect keeps well	testing, the easy-	
/	77500	No visible change in appearance and	cleaning effect of the	/
alleurs		the easy-cleaning effect keeps well	tested sample was	
Plenor	80000	No visible change in appearance and	basically kept consistent	C D S
		the easy-cleaning effect keeps well	with untested sample	Telle .
	82500	No visible change in appearance and		
	C_CCC	the easy-cleaning effect keeps well	S	3
Orto	85000	No visible change in appearance and	lar to	A CONTRACTOR OF
SUBPC -	ALCON CONTRACTOR	the easy-cleaning effect keeps well	S Gapa	A SHE
- SH	87500	No visible change in appearance and	ST.	
	$\geq$	the easy-cleaning effect keeps well		
.55	90000	No visible change in appearance and		
Dieffatieus	Plen	the easy-cleaning effect keeps well	nister the	Jeps
Pie	92500	No visible change in appearance and	A CARE	S. C.
	i dys	the easy-cleaning effect keeps well		S.
	95000	No visible change in appearance and	$\times$	
n		the easy-cleaning effect keeps well	Sh.	



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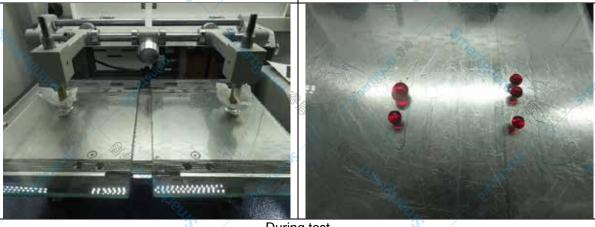
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Times	Test Results	Client's requirement	Conclusion
97500	No visible change in appearance and	After 100000 times of	1
97500	the easy-cleaning effect keeps well	testing, the easy-	,
Ter Jan	antantia anta	cleaning effect of the	Zim mat
10000	No visible change in appearance and	tested sample was	Base
10000	the easy-cleaning effect keeps well	basically kept consistent	Pass
aus	and the second s	with untested sample	NUS III

Test Photo:





#### During test



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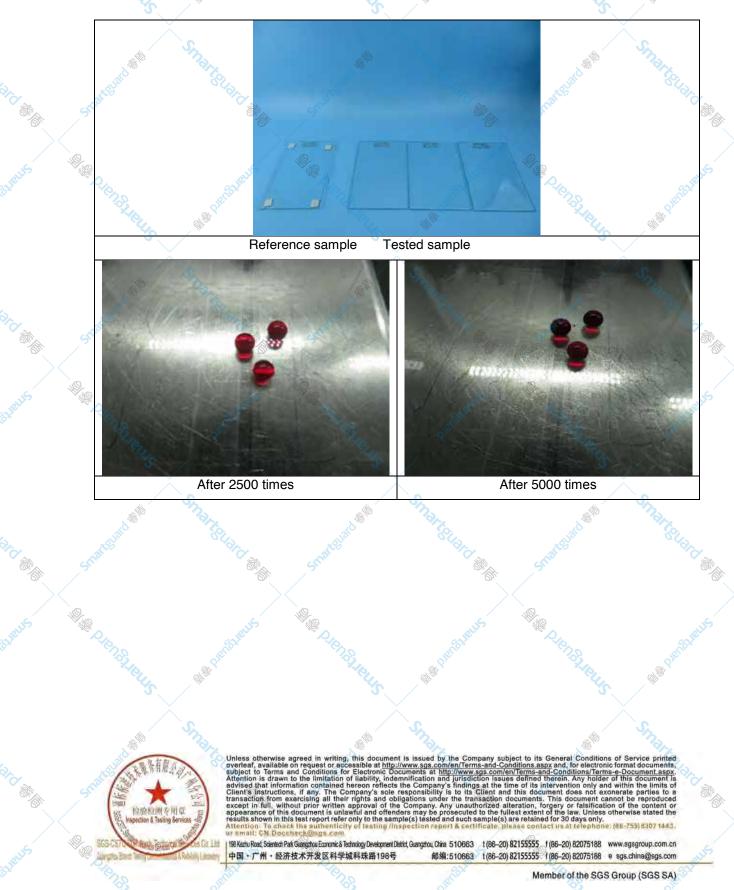
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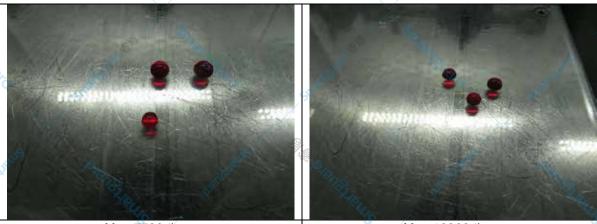
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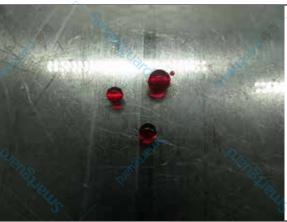


After 7500 times

After 10000 times



After 12500 times



After 15000 times



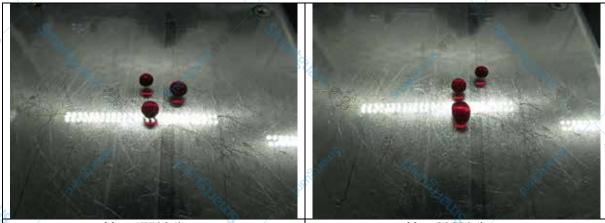
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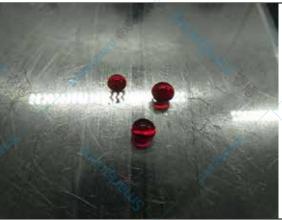


After 17500 times

After 20000 times



After 22500 times



After 25000 times



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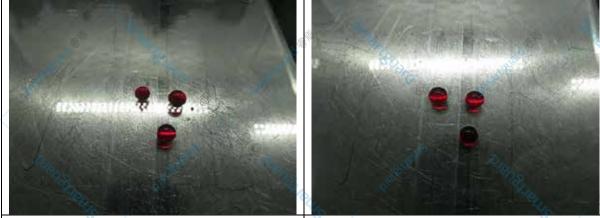
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After 27500 times

Lard We

After 30000 times



After 32500 times

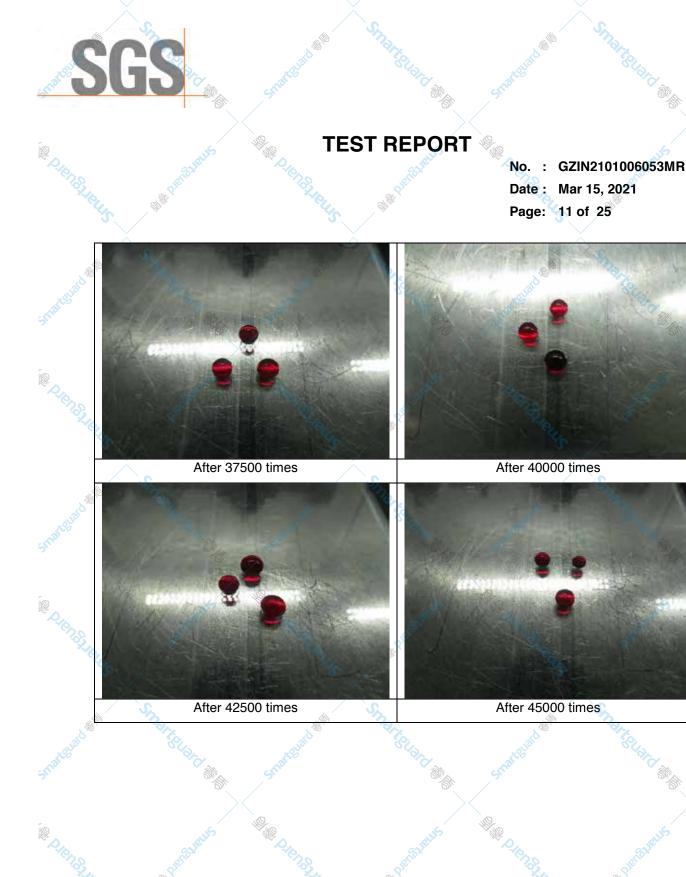


After 35000 times



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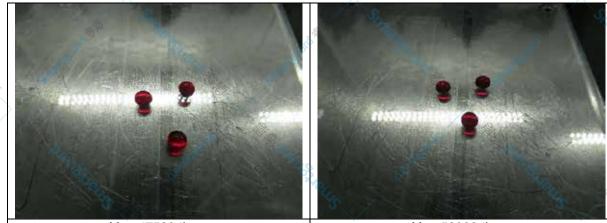
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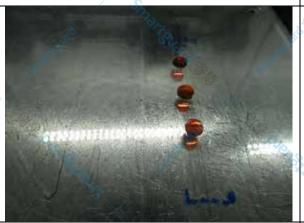
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No. : GZIN2101006053MR Date : Mar 15, 2021 Page: 12 of 25

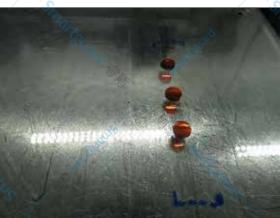


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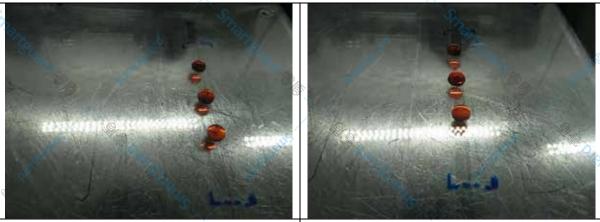


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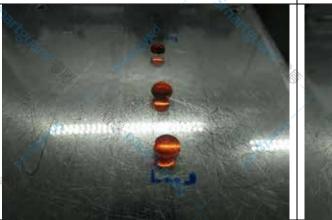


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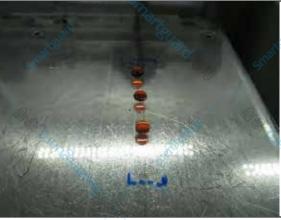


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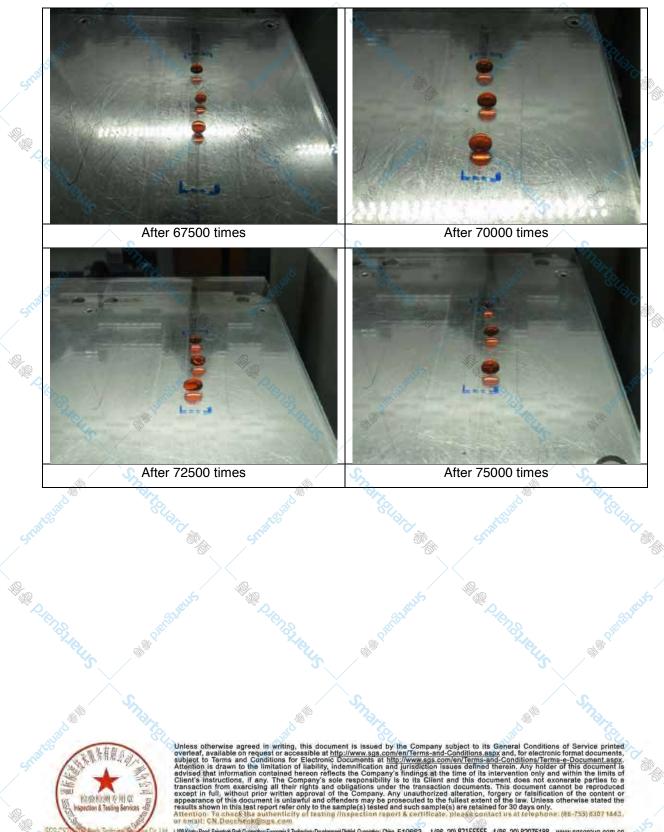
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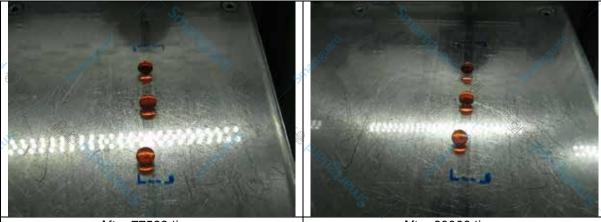
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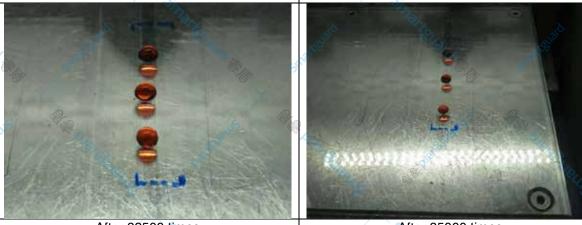


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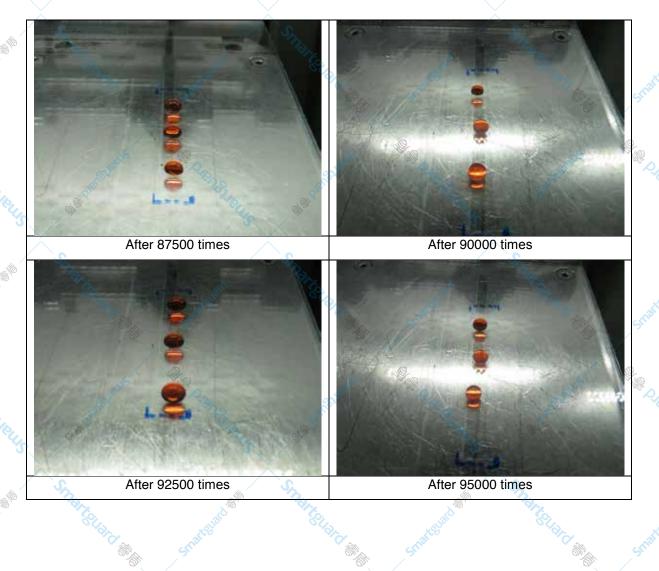
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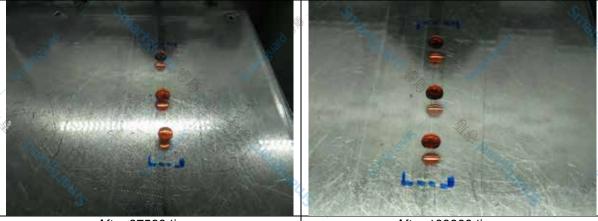
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#### **TEST REPORT**

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After 97500 times

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#### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electrodynamic	TG-5223-A	GZMR-AG-E126	2020-09-15	2021-09-14
Crocking Tester	TU-3223-A		2020-09-13	2021-09-14



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2. Test Item: Detergent Resistance Sample Description: Easy-to-clean coated glass Test Method: AAMA 2605-20 Section 8.7.4 Test Condition:

Temperature: 38°C

Time of contact: 72h

Tape: Elcometer 99

Test Result:

	2				
	Test Item	Test Result	Requirement in AAMA 2605-20	Conclusion	
20	Detergent Resistance	No loss of adhesion, no blistering or other visible change	No loss of adhesion of the film to the metal, no blistering and no significant visual change in appearance.	Pass	<i>to</i>

Note: The solid detergent composition is as follows:

Tetrasodium pyrophosphate (AR): 53% (m/m)

Sodium sulphate anhydrous (AR): 19% (m/m)

Sodium linear alkylarylsulfonate (AR): 20% (m/m)

Sodium metasilicate hydrated (AR): 7% (m/m)

Sodium carbonate anhydrous (AR): 1% (m/m)

Prepare a 30g/L solution of detergent with the solid detergent.

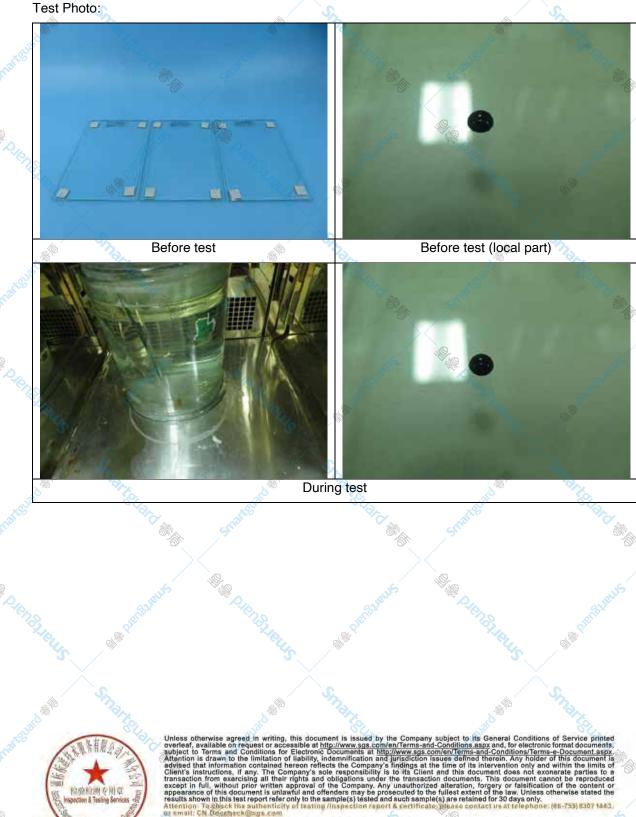


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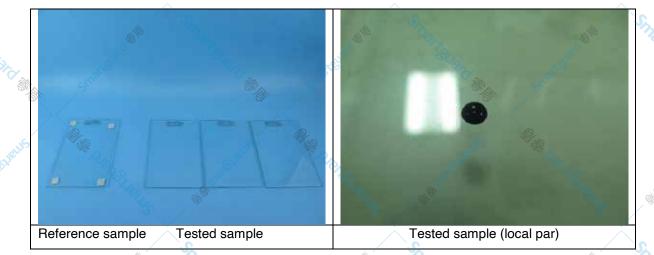


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#### Equipment Information:

	×97	- Or	×07		*02
Ŕ	Equipment	Model	Equipment No.	Calibration date	Next Calibration date
1	Electron balance	JJ2000B 🚿	GZMR-AG-E213	2020-04-27 🚿	2021-04-26
	High temperature oven with air circulation	MS-GW- 150B	GZMR-PL-E151	2020-09-14	2021-09-13



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3. Test Item: Muriatic Acid Resistance Sample Description: Easy-to-clean coated glass Test Method: AAMA 2605-20 Section 8.7.1 Test Condition:

Medium: 10%(V/V) HCI

Method of contact: Spot method

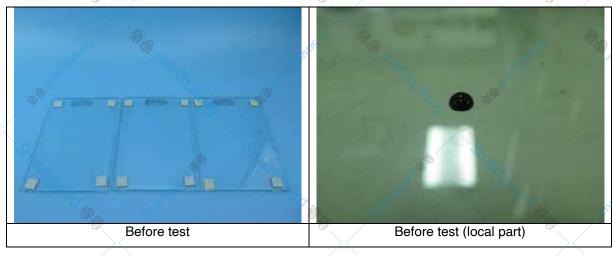
Temperature: Room temperature

Time of contact: 15min

#### Test Result:

Test Item	Test Result	Requirement in AAMA 2605-20	Conclusion
Muriatic Acid Resistance	No visual change	No blistering or other visual change	Pass

Test Photo: 🚿





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- 4. Test Item: Window Cleaner Resistance
- Sample Description: Easy-to-clean coated glass
- Test Method: AAMA 2605-20 Section 8.7.5 & ASTM D3359-17

Test Condition:

- Medium: Window Cleaner (See note)
- Method of contact: Spot method
- Temperature: Room temperature
- Time of contact: 24h
- Cut space: 1mm
- Tape: Elcometer 99
- Test period: 2021-01-29~2021-02-04
- Test Result:

			ALC: NO
Test Item	Test Result	Requirement in AAMA 2605-20	Conclusion
Window Cleaner Resistance	No blistering or other visible change, no removal of film	No blistering or noticeable change in appearance, no removal of film under the tape within or outside of the cross- hatched area.	Pass

Note: The glass cleaner composition is as follows: Propylene glycol methyl ether (AR): 5% (m/m) Propylene glycol (AR): 5% (m/m) Isopropanol(AR): 35% (m/m) Water: 55%(m/m)

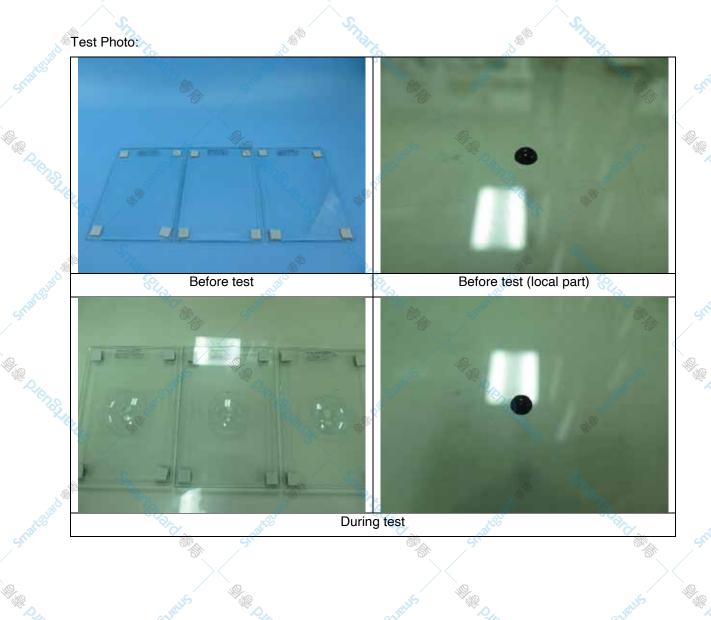


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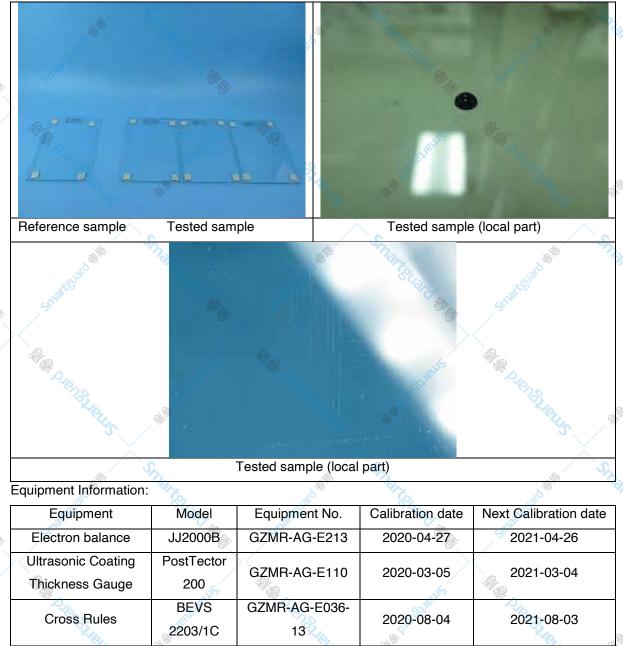
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#### **TEST REPORT**

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#### **Test Report**

No. SZXEC2100252601 Date: 01 Feb 2021

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SHENZHEN SMARTGUARD NANO MATERIAL CO., LTD. RM.9B,JIALITAI BUILDING,YANSHAN ROAD,NANSHAN DIST.,SHENZHEN,CHINA.

The following sample(s) was/were submitted and identified on behalf of the clients as : Smartguard Easy-to-clean Nano Coating

SGS Job No. :

Date of Sample Received :

Testing Period :

Test Requested : Test Method :

Test Results :

Conclusion :

RP21-001839 - SZ

26 Jan 2021

26 Jan 2021 - 01 Feb 2021

Selected test(s) as requested by client. Please refer to next page(s).

Please refer to next page(s).

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. Shenzhen Branch



Andy Ni Approved Signatory



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# SGS

#### Test Report

No. SZXEC2100252601

Date: 01 Feb 2021 Page

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX21-002526.001	Colorless transparent liquid

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+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

AND		P	Y	at B
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u> </u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	<u>م</u> ن ک	ND
Hexavalent Chromium (Cr(VI))	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	-	ng/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	2 <sup>115</sup> 5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	<u> </u>	mg/kg	5	ND
Tribromodiphenyl ether	<u> </u>	mg/kg	5	ND
Tetrabromodiphenyl ether	-	🕥 mg/kg	5	ND
Pentabromodiphenyl ether		mg/kg	5	ND 🌾
		SO3		



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-Di-						MO-	
Test Report	No. SZXEC21	002526	01	Date:	01 Feb 2021	Page 3 of 6	
Test Item(s)	Plenak	<u>Limit</u>	Unit	MDL S	<u>001</u>	Chenger and Chenger	Pienox
Hexabromodiphenyl ether 🍾		-	mg/kg	5	ND	ill's	M. an
Heptabromodiphenyl ether		-	mg/kg	5	ND		
Octabromodiphenyl ether	2	-	mg/kg	5	ND		J.
Nonabromodiphenyl ether	nar	-	mg/kg	5 💊	ND	. Alle	nar,
Decabromodiphenyl ether	St.	-	mg/kg	5	ND ND		St.
Dibutyl Phthalate (DBP)		1,000	mg/kg	50	ND	marts	
Butyl benzyl Phthalate (BBP)	ON: TH	1,000	mg/kg	50	ND	5	
Bis(2-ethylhexyl) Phthalate (DEH	P)	1,000	mg/kg	50	ND		
Diisobutyl Phthalate (DIBP)		1,000	mg/kg	50	ND	- Partie - Contraction - Contr	
REAL REAL REAL REAL REAL REAL REAL REAL			<b>b</b> .				

#### Notes :

SGS

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) 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:12586
37,25

(3) 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.



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# SGS

Test Report

No. SZXEC2100252601

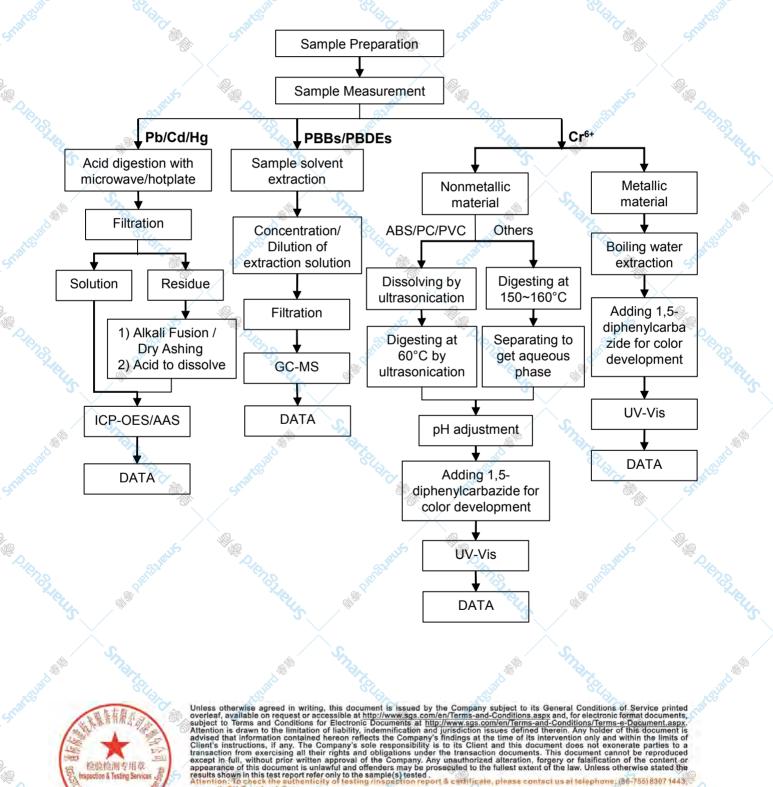
Date: 01 Feb 2021

Page 4 of 6

ATTACHMENTS

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

1)These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



SGS-CS Standards Technical Service Co., Ltd.

GF BH11 CLA Garban butstife Fax Mo430, Thua Road, Bantian, Longgang District, Shenzhen, China 5518129 t (86-755) 25328688 f (86-755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4栋SGS大楼 画編: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.china@sgs.com



Sample cutting / preparation

Solvent extraction

Concentration/Dilution

Filtration GC-MS DATA



9 19

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#### Test Report

No. SZXEC2100252603

Date: 01 Feb 2021 Page 1 of 4

SHENZHEN SMARTGUARD NANO MATERIAL CO., LTD. RM.9B,JIALITAI BUILDING,YANSHAN ROAD,NANSHAN DIST.,SHENZHEN,CHINA.

The following sample(s) was/were submitted and identified on behalf of the clients as : Smartguard Easy-to-clean Nano Coating

SGS Job No. :

Date of Sample Received :

Testing Period :

Test Requested : Test Method :

Test Results :

RP21-001839 - SZ 26 Jan 2021 26 Jan 2021 - 01 Feb 2021 Selected test(s) as requested by client. Please refer to next page(s).

Please refer to next page(s).

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



Andy Ni Approved Signatory



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## SGS

#### Test Report

No. SZXEC2100252603

Date: 01 Feb 2021 Page 2 of 4

Test Results :

Test Part Description :

 Specimen No.
 SGS Sample ID
 Description

 SN1
 SZX21-002526.001
 Colorless transparent liquid

Remarks :

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

#### Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

ς	Test Item(s)	<u>ČAS NO.</u>	<u>Unit</u>	MDL	<u>001</u>
	Perfluorooctanoic acid (PFOA) and its salts+	snu -	🃐 mg/kg 🔨	0.010	ND
	Perfluorooctane sulfonates (PFOS)^	1763-23-1	mg/kg	0.010	ND
	Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	🧟 31506-32-8	mg/kg	0.010	ND
	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
	2-(N-methylperfluoro-1-octanesulfonamido) -ethanol	24448-09-7	mg/kg	0.010	ND
	(MeFOSE)			· Yr	
	2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol	1691-99-2	mg/kg	0.010 💙	ND
	(EtFOSE)				$\wedge$
	Perfluorooctane sulfonates (PFOS) and its derivatives	- m	mg/kg	0.010	ND
	S <sup>NO</sup>	S***		,8 <sup>%0</sup>	

Notes :

(1)+ PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1). (2)^ PFOS refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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# SGS

Test Report

No. SZXEC2100252603

Date: 01 Feb 2021 Page 3 of 4

ATTACHMENTS

PFOA / PFOS Testing Flow Chart

Sample cutting / preparation

Sample Measurement

Solvent extraction

Concentration/Dilution

Filtration

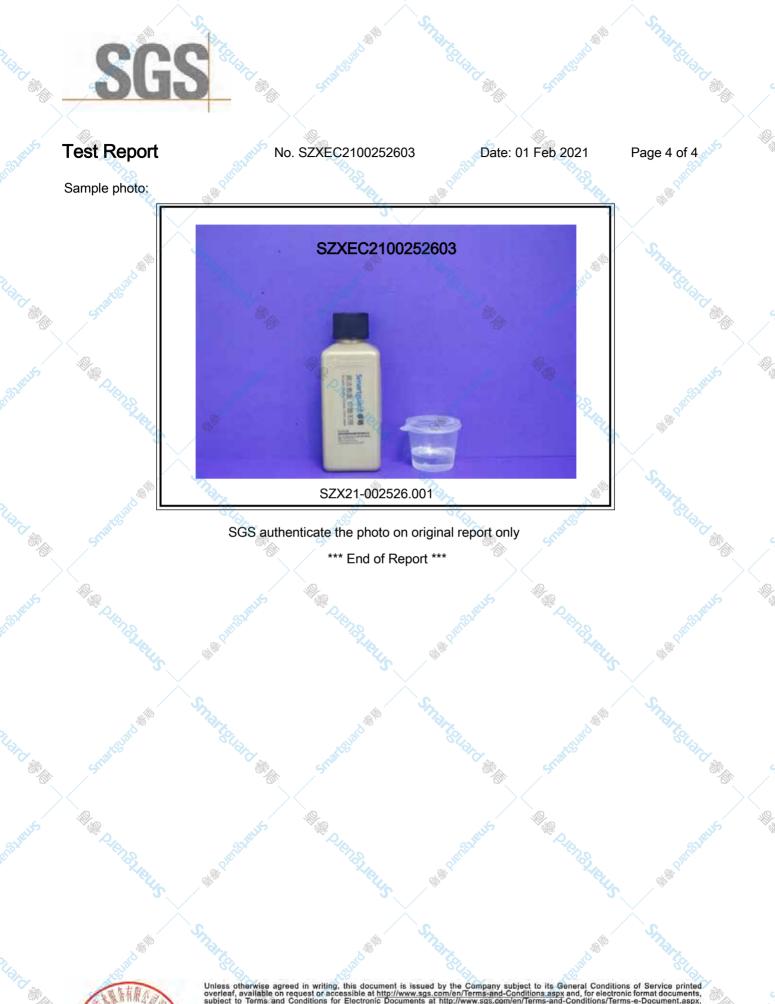
LC-MS or LC-MS/MS

DATA



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### 测试报告 Test Report

受检单位:	深圳市睿盾纳米新材料有限公	·司
样品名称:_	易洁玻璃涂层	C AN
型号规格:	Smartguard 易洁涂层系列	
测试类别:	委托测试	heurs

Applicant: Shenzhen Smartguard Nano Material Co., Ltd.

Product:

Easy-to-clean Glass Coating

Specification: Smartguard Easy-to-clean Coating Series

Test category:

Commission inspection



测试人 Prepared by

校 核 张艺翔 Reviewed by

批 准 人 Approved by

报告批准日期 Report approval date

浙江大学材料科学与工程学院 表面与结构改性无机功能材料教育部工程研究中心

School of Materials Science and Engineering, Zhejiang University. The Engineering Center of Surface and Structure Modified Inorganic Functional Materials of Ministry of Education.



#### Test Report

#### 浙江大学材料科学与工程学院 表面与结构改性无机功能材料教育部工程研究中心

School of Materials Science and Engineering, Zhejiang University. The Engineering Center of Surface and Structure Modified Inorganic Functional Materials of Ministry of Education.

#### 编号 Refference number: 20190923-0011

#### 日期 Date: 2019 / 09 / 29



测试报告

#### Test Report

### 浙江大学材料科学与工程学院表面与结构改性无机功能材料教育部工程研究中心

School of Materials Science and Engineering, Zhejiang University. The Engineering Center of Surface and Structure Modified Inorganic Functional Materials of Ministry of Education.

#### 编号 Refference number: 20190923-0011

#### 日期 Date: 2019 / 09 / 29



受检单位 通讯资料	地址 Add	深圳市南山区蛇口沿 Rm9A, Jialitai Buildin		厦9B室 ad, Nanshan Dist., Shenzhen, Ch	iina
Applicant communication details	邮编 Postcode	518000	电话 Tel	+86-0755-26890033	
备注 Remarks	- aleus	Ne Di	aleus	Ne Du	arehie

### 测试报告

#### Test Report

SUARD

No.

### 浙江大学材料科学与工程学院 表面与结构改性无机功能材料教育部工程研究中心

School of Materials Science and Engineering, Zhejiang University. The Engineering Center of Surface and Structure Modified Inorganic Functional Materials of Ministry of Education.

#### 编号 Refference number: 20190923-0011

#### 日期 Date: 2019 / 09 / 29

测试项目 Test items	耐磨性、耐老化、沸水测试 Wear resistance, Aging resistance, Boiling water test	Sheus
测试仪器/方法 Test instrument / method	负载125g摩擦块,尺寸90mm*40mm,来回摩擦60000次; UVA-340紫外线老化实验箱内100小时; 沸水煮1小时。 接触角测量仪 (DCA20, DATAPHYSI) Applied 125gs force to the scrubbing pad, test block of size 90mmx40mm, performing 60,000 cycles of forward and back motion; UVA-340 UV 100 hours in the aging test chamber; boiling water for 1 hour. Contact angle tester (DCA20, DATAPHYSI)	Smarteliard Mar
Sinds-P 64: EI	摩擦后接触角: 105.0° (第一次测结果: 104.8°,第二次测结果: 104.5°,第三次测结果: 105.7°。) UV老化后接触角: 102.6° (第一次测结果: 102.4°,第二次测结果: 102.3°,第三次测结果: 103.1°。) 水煮后接触角: 106.8° (第一次测结果: 106.6°,第二次测结果: 106.8°,第三次测结果: 107.0°。)	A Persteus
测试结果 Test result	After wear contact angle: 105.0° (First test result: 104.8°, Second test result: 104.5°, Third test result: 105.7°.) After UV contact angle: 102.6° (First test result: 102.4°, Second test result: 102.3°, Third test result: 103.1°.) After boiling contact angle: 106.8° (First test result: 106.6°, Second test result: 106.8°, Third test result: 107.0°.)	Smartsuard Will
<ul> <li>測试日期 Test Date</li> <li>注・测试结果日针对详测标</li> </ul>	2019/09/23 - 2019/09/27 举品 Test results are only for the tested samples	A PROSPERSY
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通讯资料 Ac	址 ld 深圳市南山区蛇口沿山路佳利泰大厦9B室 Rm9A, Jialitai Building, Yanshan Road, Nanshan Dist., Shenzhen, China	Smartellarr
	编 518000	
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测试报告

#### Test Report

#### 浙江大学材料科学与工程学院 表面与结构改性无机功能材料教育部工程研究中心

School of Materials Science and Engineering, Zhejiang University. The Engineering Center of Surface and Structure Modified Inorganic Functional Materials of Ministry of Education.

编号 Refference number: 20190923-0011

#### 日期 Date: 2019 / 09 / 29



注:测试结果只针对送测样品 Test results are only for the tested samples

受检单位 通讯资料 Applicant communication details	地址 Add 邮编 Postcode		山路佳利泰大 , Yanshan Ro 电话 Tel	厦9B室 ad, Nanshan Dist., Shenzhen, China +86-0755-26890033
备注 Remarks	D <sub>10</sub>	Sheus	N DIO	Sileus Co



communication

details

备注 Remarks

邮编

Postcode

518000

#### Test Report

#### 浙江大学材料科学与工程学院 表面与结构改性无机功能材料教育部工程研究中心

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更多详情请咨询客服 For more informations, please contact customer service

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