

## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

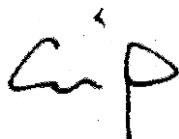
Page: 1 of 17

CUSTOMER NAME: DOUBLE STONE STEEL LTD.  
ADDRESS: 230 DAYONG ROAD DASHI TOWN PANYU DISTRICT GUANGZHOU

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : 316L ROSE GOLD VIBRATION  
SGS Ref. No. : GZIN1603007236PS, GZIN1603009012MR  
Date of Receipt : Mar 01, 2016  
Testing Start Date : Mar 01, 2016  
Testing End Date : Mar 17, 2016  
Test result(s) : For further details, please refer to the following page(s)

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



Shining Chan  
Authorized signatory



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**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](mailto:CN.Doccheck@sgs.com)**

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 2 of 17

1. Test Item: Color Uniformity

Sample Description: Metal product with coating

Test Method: AAMA 2605-13 Section 8.1 & ASTM D2244-11

Test Condition:

Illuminant: D65

Observer: 10°

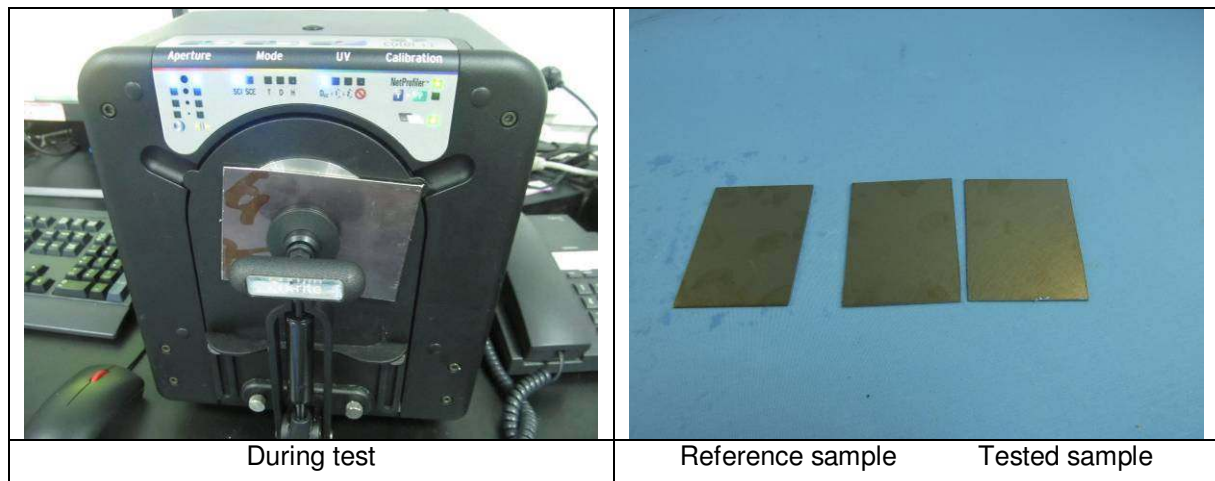
Test mode: Specular Component Included

Aperture: 25mm

Test Result:

Sample	Test result	Client's requirement	Conclusion
1	$\Delta E = 1.1$	$\Delta E < 2$	Pass

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Sphere Spectrophotometer	Color i7	GZMR-AG-E155	2015-05-18	2016-05-17



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 3 of 17

2. Test Item: Dry Film Hardness

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.3 & ASTM D3363-05(2011)<sup>e2</sup>

Test Condition:

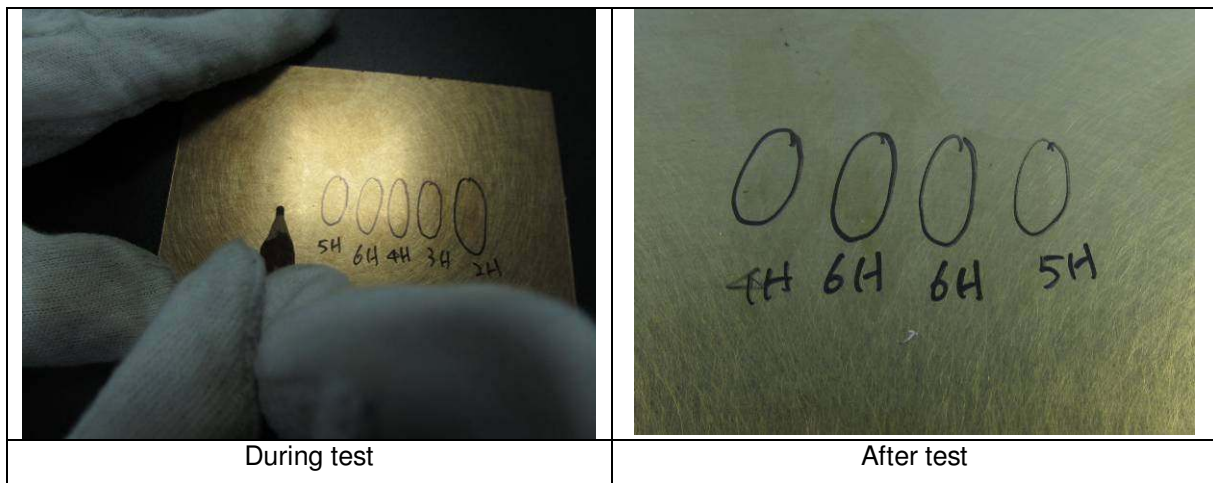
Pencil: Mitsubishi® Uni

Test Result:

Sample	Test result	Client's requirement	Conclusion
1	No scratch with 6H pencil	≥H	Pass

Note: In ASTM D3363-05(2011)<sup>e2</sup>, 6H is the hardest and 6B is the softest.

Test Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 4 of 17

### 3. Test Item: Dry Adhesion

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.4.1.1 & 8.4.1.2

Test Condition:

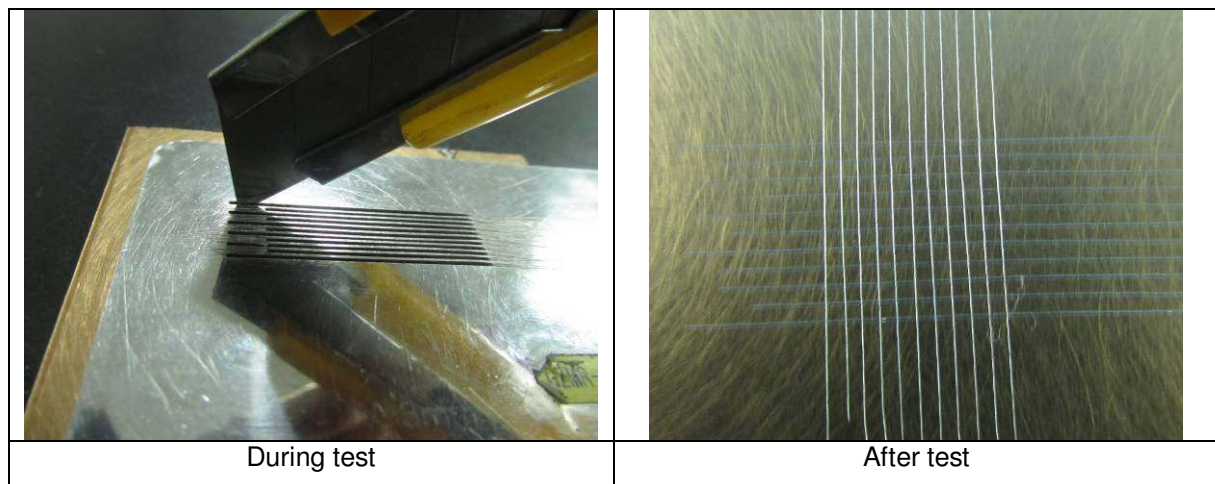
Space: 1mm

Tape: Elcometer 99

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	No removal of the coating	No removal of the coating	Pass

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Cross Rules	BGD503	GZMR-AG-E036-05	2015-12-04	2016-12-03



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 检测服务实验室

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 5 of 17

## 4. Test Item: Wet Adhesion

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.4.1.3 & 8.4.1.2

Test Condition:

Cut space: 1mm

Immersed in 38°C water for 24h

Tape: Elcometer 99

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	No removal of the coating or blistering	No removal of the coating or blistering	Pass



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 通标标准技术服务有限公司

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

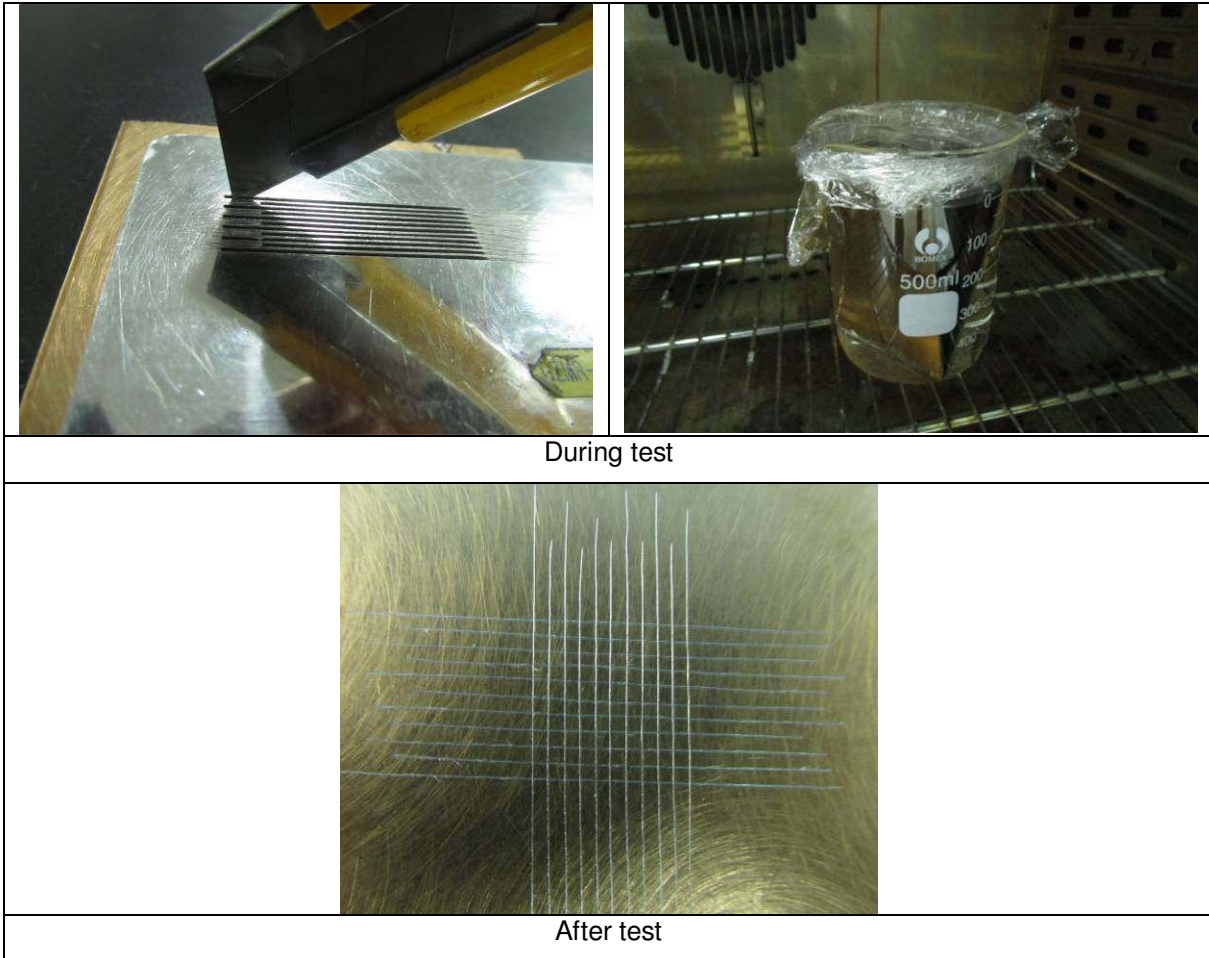
## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 6 of 17

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Cross Rules	BGD503	GZMR-AG-E036-05	2015-12-04	2016-12-03
Oven	FD115	GZMR-AG-E076	2015-08-11	2016-08-10



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch, Guangzhou Chemicals Laboratory

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 7 of 17

### 5. Test Item: Boiling Water Adhesion

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.4.1.4 & 8.4.1.2

Test Condition:

Cut space: 1mm

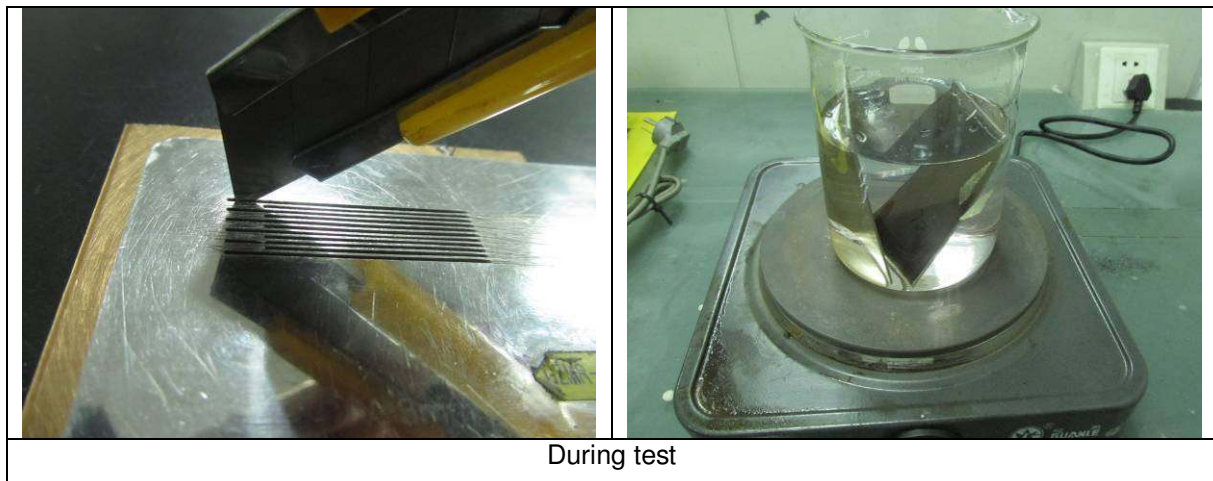
Immersed in boiling water for 20min

Tape: Elcometer 99

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	No removal of the coating or blistering	No removal of the coating or blistering	Pass

Test Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663

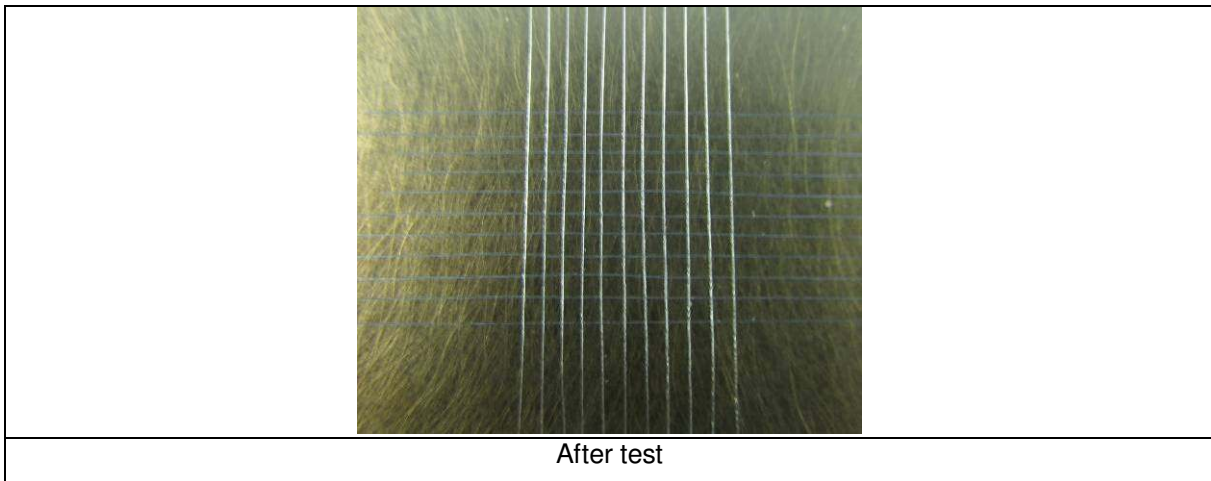
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 8 of 17



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Cross Rules	BGD503	GZMR-AG-E036-05	2015-12-04	2016-12-03

6. Test Item: Impact Resistance

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.5

Test Condition:

Diameter of the punch: 16mm

Impact type: Intrusion

Tape: Elcometer 99

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	Visual peeling	No removal of the coating	Fail



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663  
中国·广州·经济技术开发区科学城科珠路198号

t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



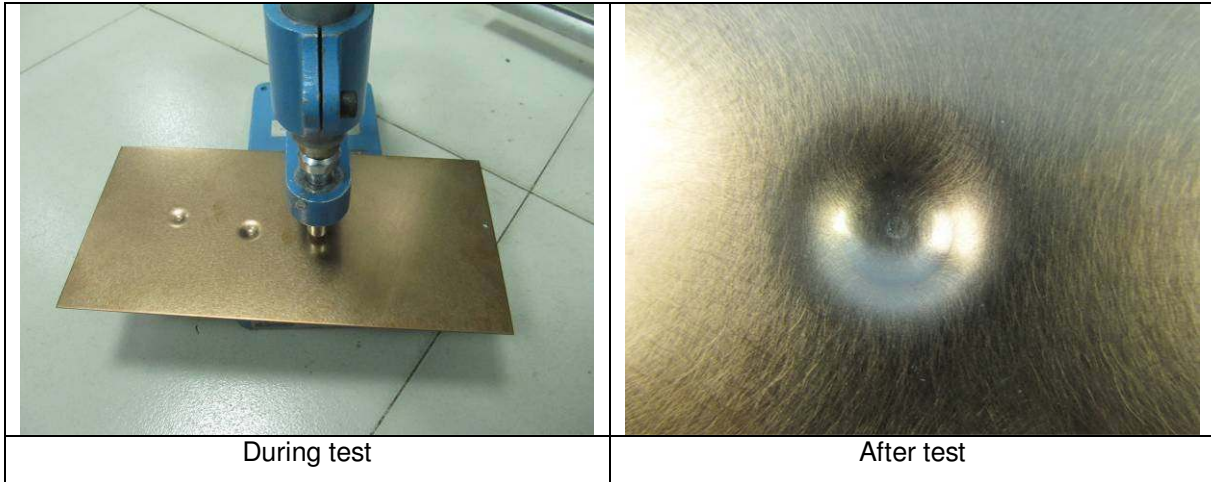
## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 9 of 17

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	IG1121	GZMR-AG-E004	2015-08-12	2016-08-11



SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 通标标准技术服务(广州)有限公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 10 of 17

### 7. Test Item: Abrasion Resistance

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.6 & ASTM D968-05(2010) Method A

#### Test Condition:

Litres of abrasive: 38.0L

Coating thickness: 0.84mil

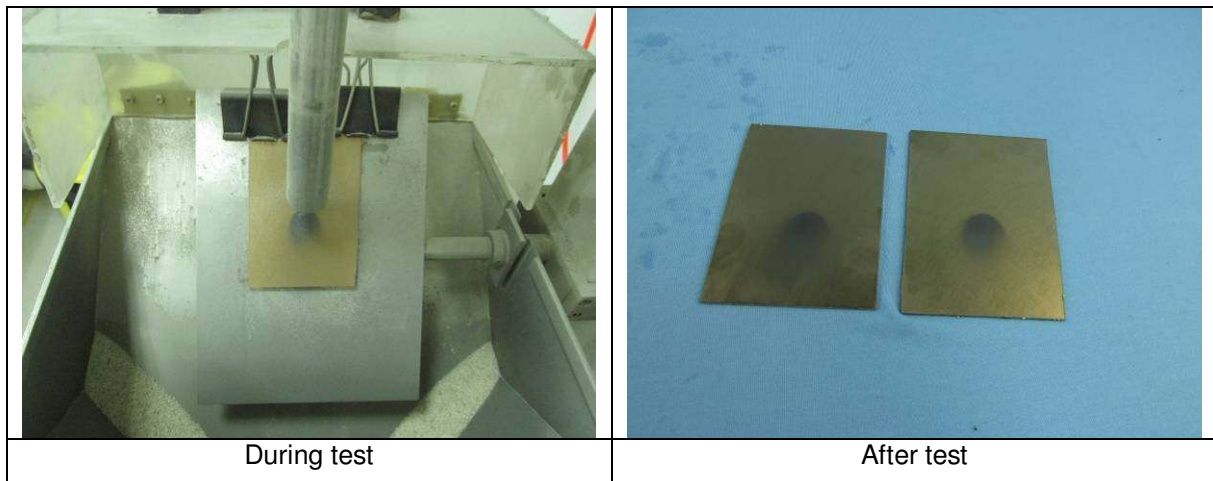
Sand type: Silica sand

Speed :21~23.5s/2L

#### Test Result:

Sample	Test result	Client's requirement	Conclusion
1	45.2L/mil, no worn out to the substrate	>40 L/mil	Pass

#### Test Photo:



#### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Falling Sand Abrasion Tester	TG-8310-AT	GZMR-AG-E140	2015-10-14	2016-10-13
Digital Coating Thickness Gauge	FN2.2	GZMR-AG-E016	2015-08-19	2016-08-18



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 检测专用章  
Guangzhou Branch / 广州分公司 / 检测专用章

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

**No. : GZIN1603007175ML**

**Date : Mar 17, 2016**

**Page: 11 of 17**

8. Test Item: Muriatic Acid Resistance

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.7.1

Test Condition:

Medium: 10%(V/V) HCl (AR)

Method of contact: Spot method

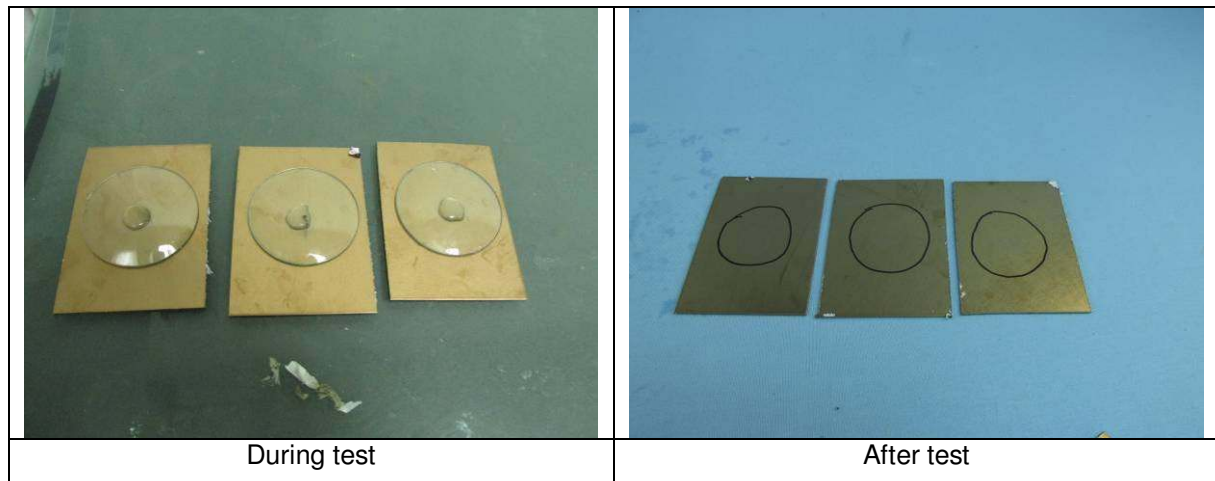
Temperature: Room temperature

Time of contact: 15min

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	Visual discoloration, but no blistering	No blistering or other visual change	Fail

Test Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**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](mailto:CN.Doccheck@sgs.com)**

SGS-C160 Standards Technical Services Co., Ltd.  
Guangzhou Branch, Guangzhou Environmental Materials Laboratory

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 12 of 17



## 9. Test Item: Mortar Resistance

Sample Description: Metal product with coating

Test Method: AAMA 2605-13 Section 8.7.2

Test Condition:

Temperature: 38°C

Humidity: 100%RH

Exposure period: 24h

Test Result:

Sample	Test Result	Client's requirement	Conclusion
1	The lime residue can be easily removed and no visual change	The lime residue can be easily removed and no visual change	Pass

Note: The mortar composition is as follows:

Building lime: 75g

Dry sand: 225g

Water: 100g



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663

中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

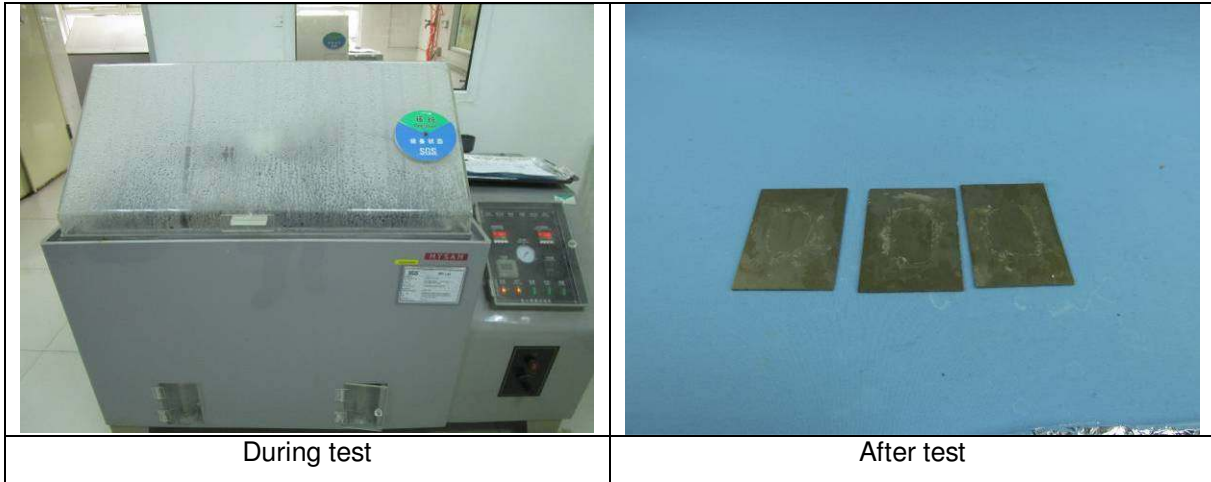
# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 13 of 17

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Salt Spray Chamber	TG-2100-M	GZMR-AG-E146	2015-04-21	2016-04-20
Electron Balance	PL2002	GZMR-AG-E125	2015-10-14	2016-10-13



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 检测服务实验室

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 14 of 17

10. Test Item: Detergent Resistance

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.7.4

Test Condition:

Temperature: 38°C

Time of contact: 72h

Tape: Elcometer 99

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	No loss of adhesion, no blistering or other visual change	No visual change	Pass

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 3%(m/m) solution of detergent with the solid detergent.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 广州分公司 / 广州检测技术有限公司

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



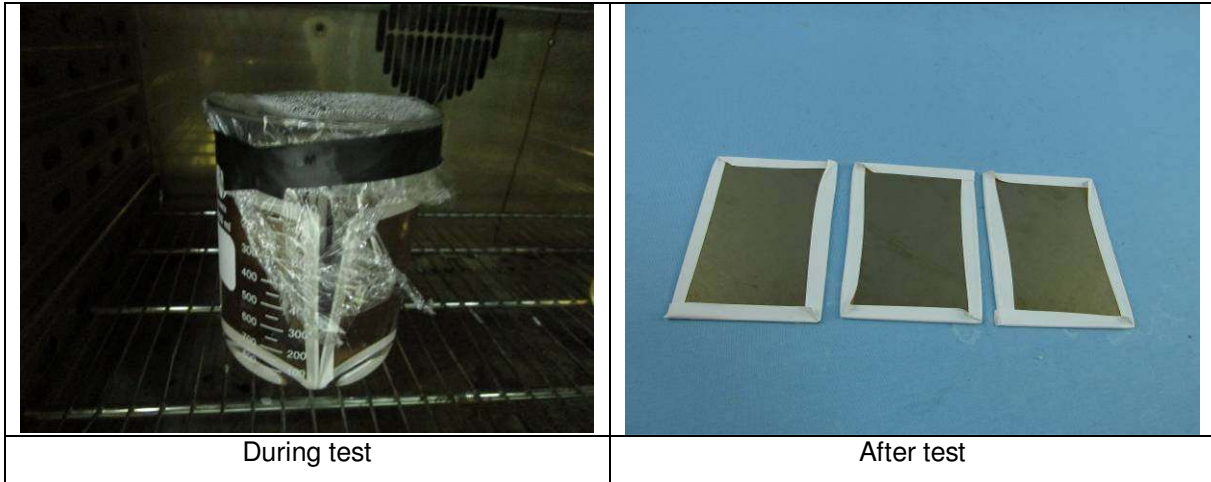
# TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 15 of 17

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	FD115	GZMR-AG-E076	2015-08-11	2016-08-10
Electron Balance	PL2002	GZMR-AG-E125	2015-10-14	2016-10-13

11. Test Item: Window Cleaner Resistance

Sample Description: Metal product with coating

Test Method: AAMA 2605-13 Section 8.7.5

Test Condition:

Medium: Windex<sup>®</sup> glass cleaner with Ammonia-D

Method of contact: Spot method

Temperature: Room temperature

Time of contact: 24h

Cut space: 1mm

Tape :Elcometer 99



SGS-CTI Standards Technical Services Co., Ltd.  
Guangzhou Branch / 通标标准技术服务有限公司 广州分公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : GZIN1603007175ML

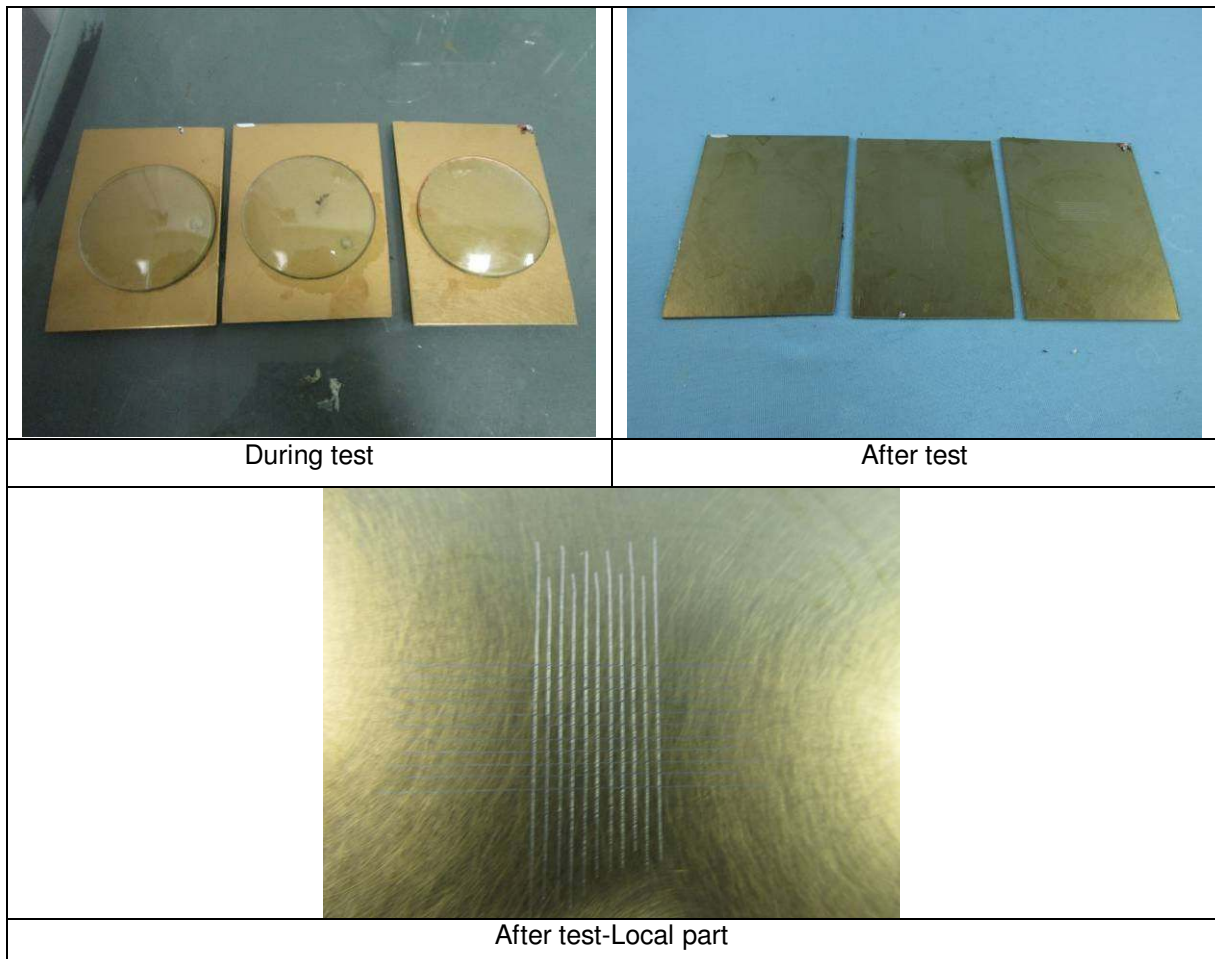
Date : Mar 17, 2016

Page: 16 of 17

Test Result:

Sample	Appearance	Client's requirement	Conclusion
1	No removal of film, blistering or other visible change	No visual change	Pass

Test Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

Page: 17 of 17

### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Cross Rules	BGD503	GZMR-AG-E036-05	2015-12-04	2016-12-03

### Original Sample Photo:



\*\*\*\*\* End of report\*\*\*\*\*



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

SGS-CTI Standards Technical Service Co., Ltd.  
Guangzhou Branch of the Forensic Laboratory

198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155661 f (86-20) 82075080 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155661 f (86-20) 82075080 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)