

TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

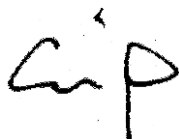
Page: 1 of 17

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



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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°

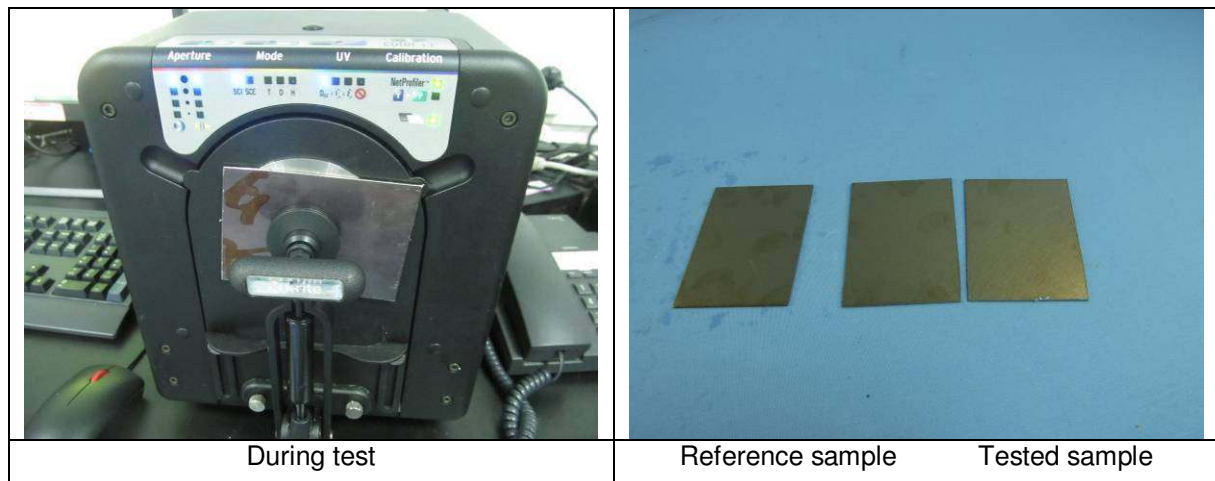
Test mode: Specular Component Included

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



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2. Test Item: Dry Film Hardness

Sample Description: Metal panel with coating

Test Method: AAMA 2605-13 Section 8.3 & ASTM D3363-05(2011)^{e2}

Test Condition:

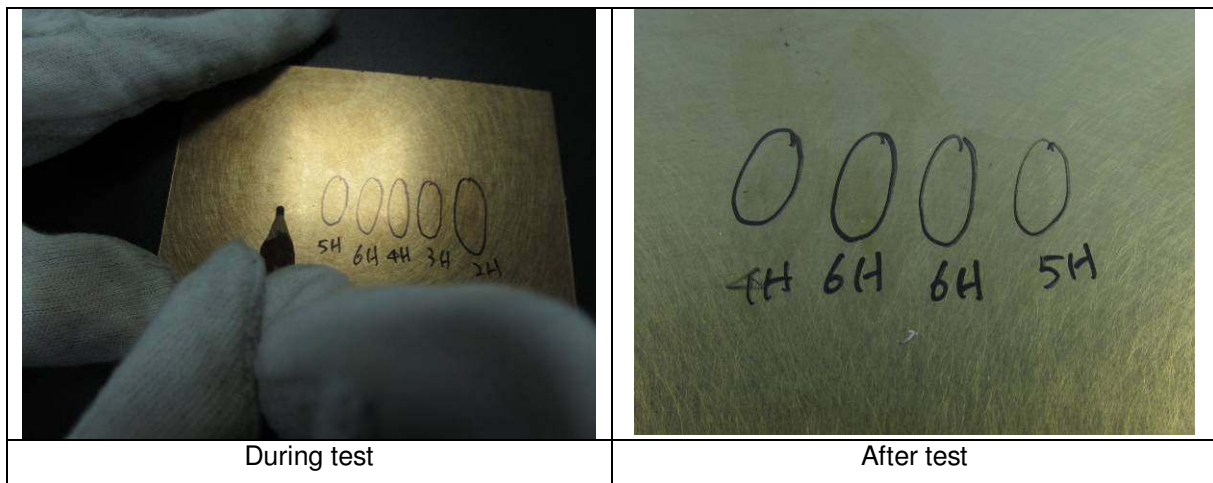
Pencil: Mitsubishi® Uni

Test Result:

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

Note: In ASTM D3363-05(2011)^{e2}, 6H is the hardest and 6B is the softest.

Test Photo:



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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:

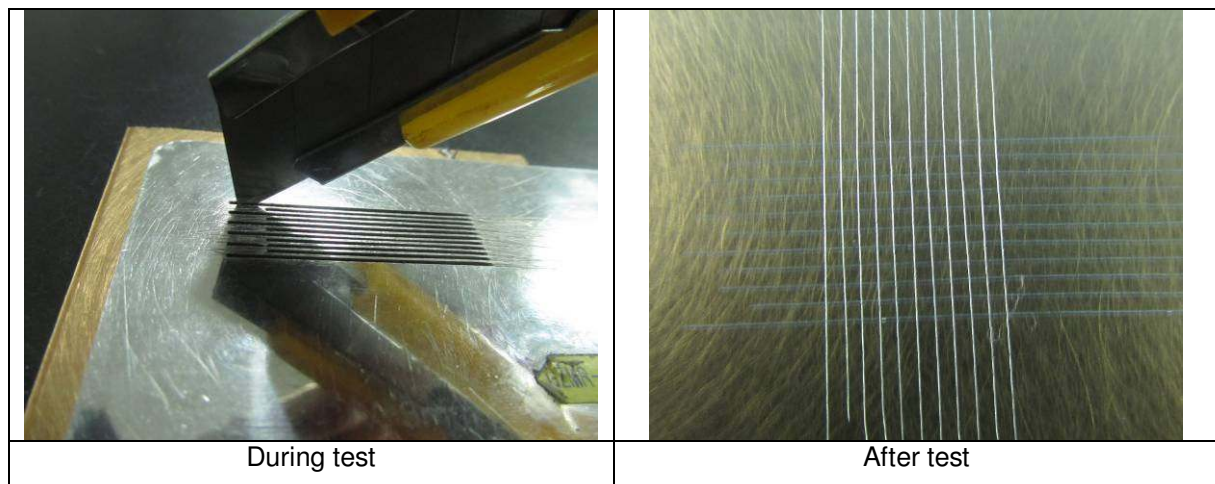
Space: 1mm

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



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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



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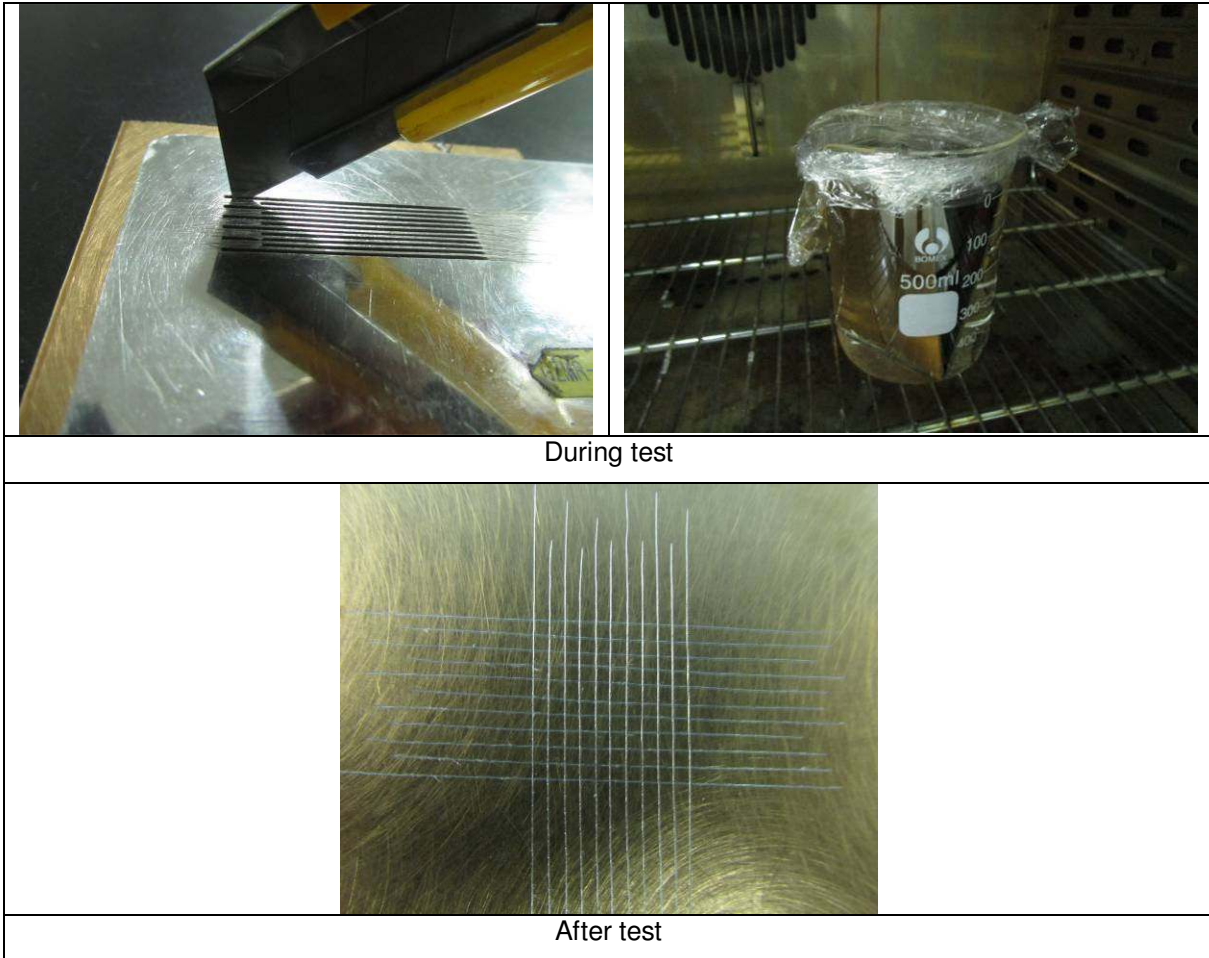
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Test Photo:



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



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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

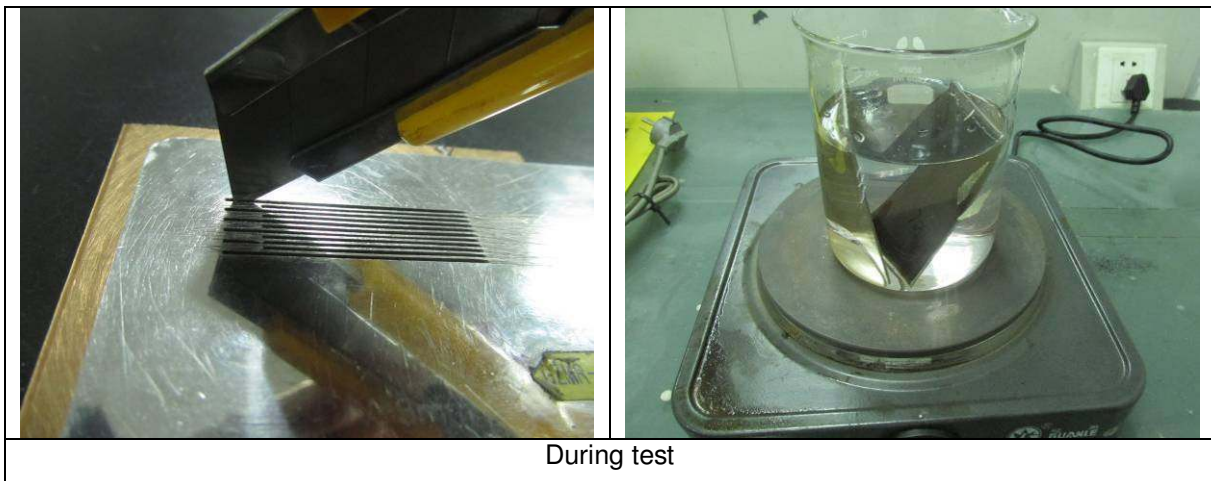
Immersed in boiling water for 20min

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:



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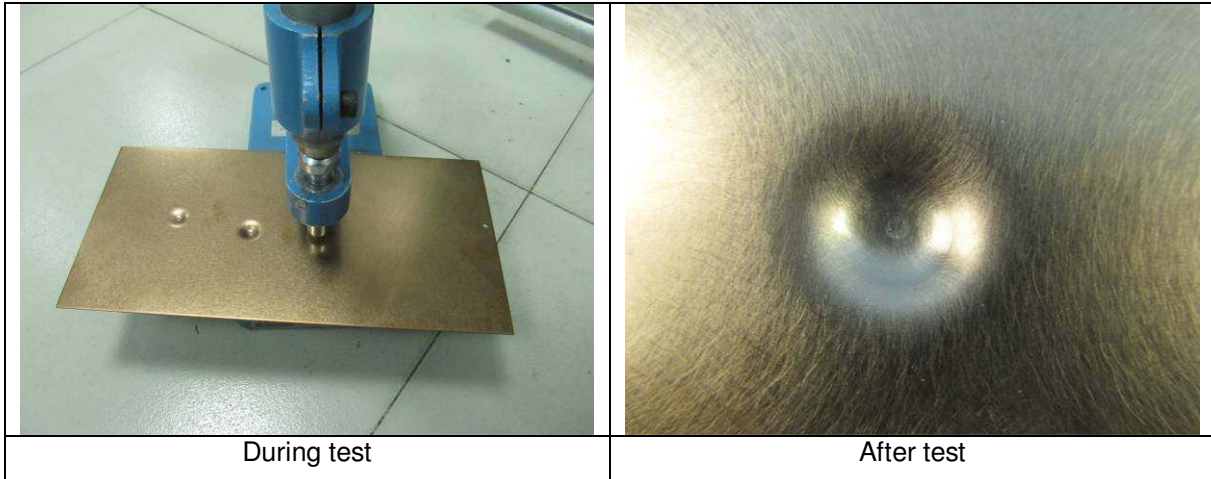
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Test Photo:



Equipment Information:

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



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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

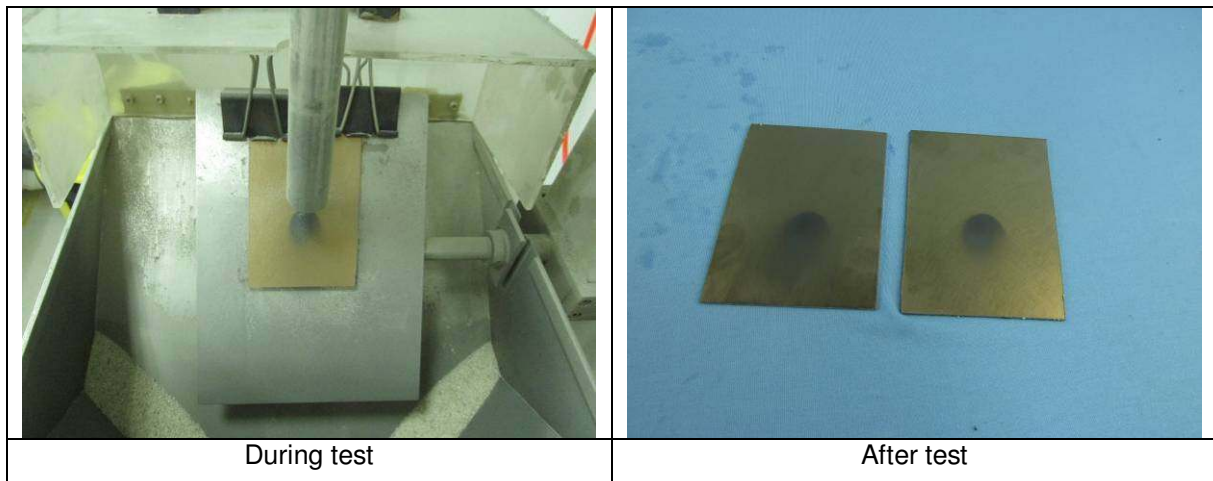
Sand type: Silica sand

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



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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

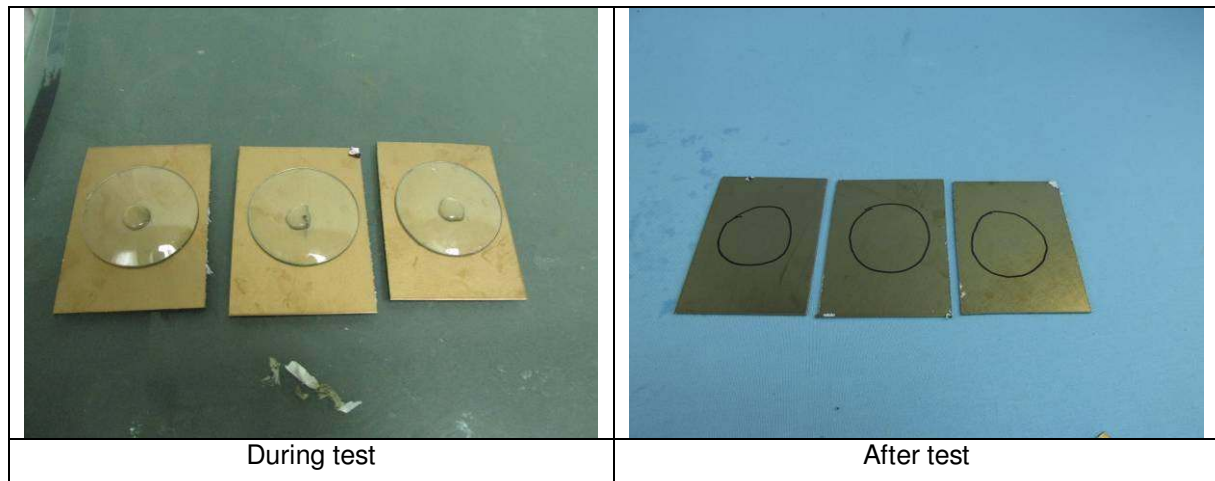
Temperature: Room temperature

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:



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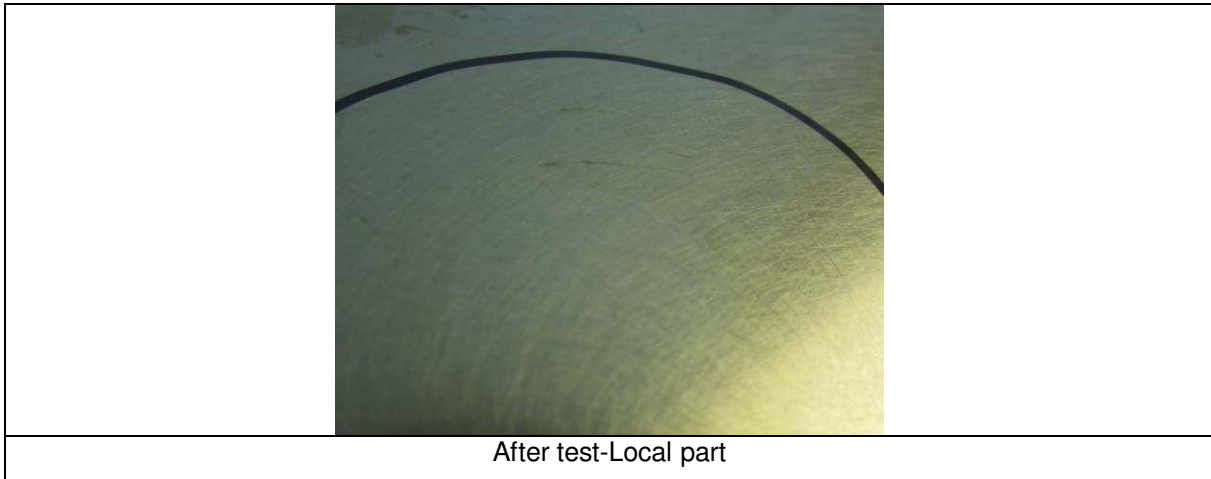
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9. Test Item: Mortar Resistance

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



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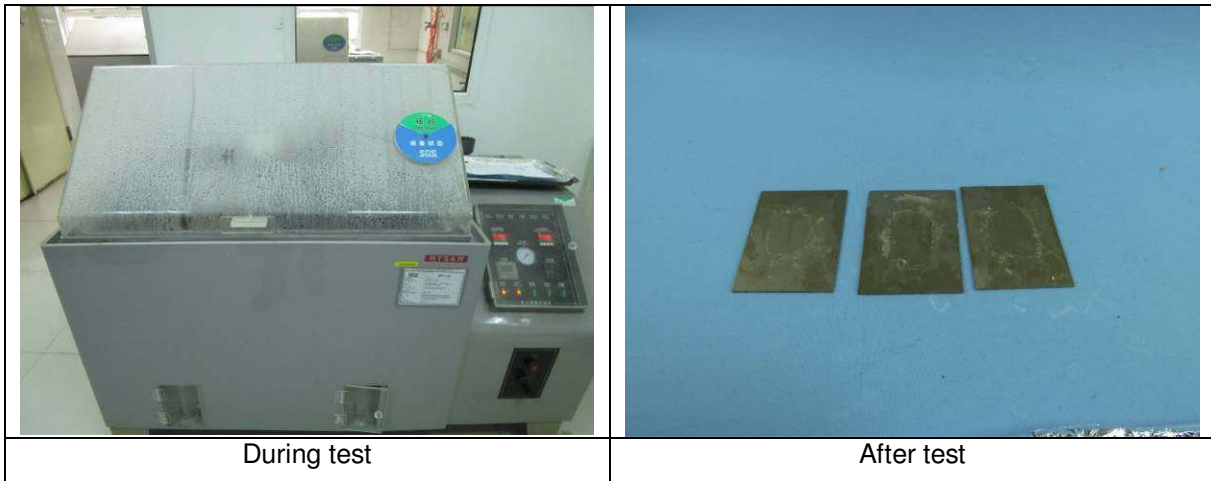
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Test Photo:



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



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TEST REPORT

No. : GZIN1603007175ML

Date : Mar 17, 2016

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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.



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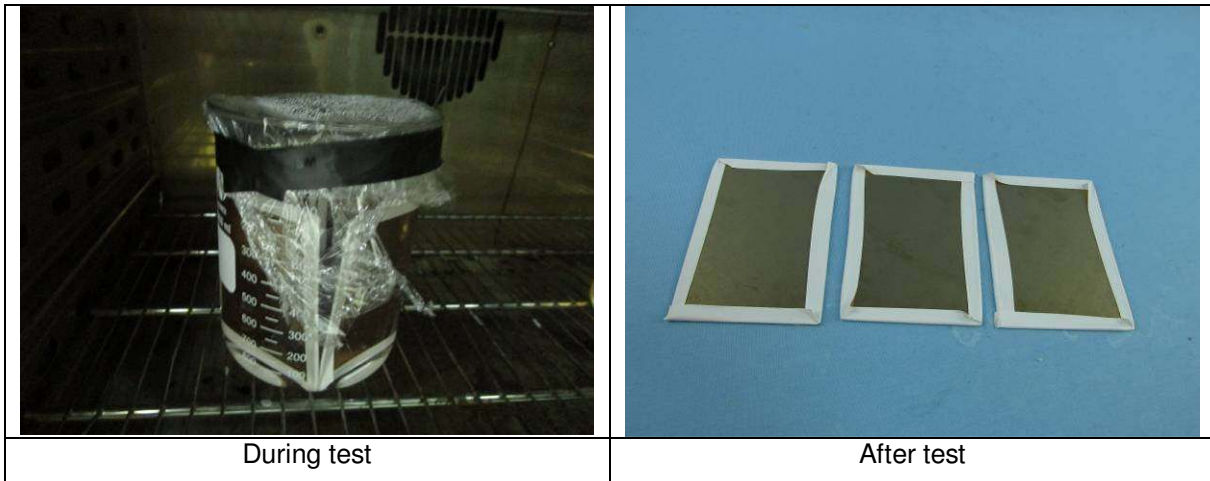
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Test Photo:



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[®] glass cleaner with Ammonia-D

Method of contact: Spot method

Temperature: Room temperature

Time of contact: 24h

Cut space: 1mm

Tape :Elcometer 99



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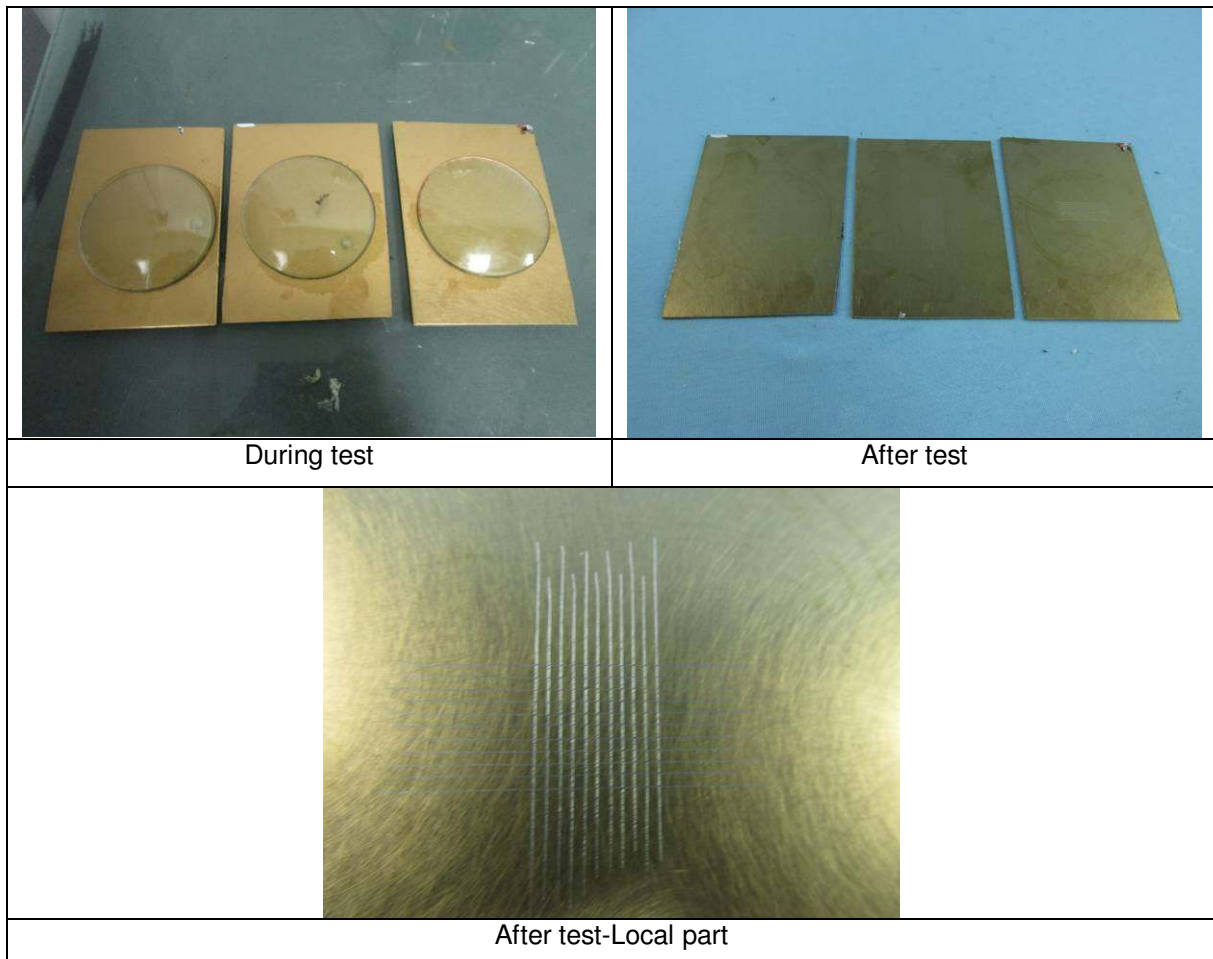
Date : Mar 17, 2016

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Test Result:

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

Test Photo:



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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*****



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