

## Test Report

No.: SHHG1512049282HA

Date: DEC. 14, 2015

Page: 1 of 13

JIANGSU WANYUAN NEW MATERIALS CO.,LTD  
XINYE ROAD,SHANGDANG TOWN,DANTU DISTRICT ,ZHENJIANG,JIANGSU,CHINA

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

Sample Description : MODIFIED ACRYLIC COATING ALU  
Sample Receiving Date : JUL. 01, 2015  
Testing Period : JUL. 01, 2015 TO DEC. 10, 2015  
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
Test Requested : ASTM B117-2011 & ASTM D1654-2008  
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
FOLLOWING PAGE(S)  
Conclusion : THE TEST DATA WERE PROVIDED TO CLIENT FOR  
THEIR OWN ANALYSIS.

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Yomoro Gu  
Supervisor



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t (86-21) 61402666\*2013

f (86-21) 54500353

www.sgs.com.cn

t (86-21) 61402666\*2013

f (86-21) 54500353

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# Test Report

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## Test Conducted:

### 1. Preliminary Treatment of Test Specimens

#### Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments (ASTM D1654-2008)

Type of preliminary treatment: Unscribed specimens

### 2. Exposure of test specimens :

#### Standard Practice for Operating Salt Spray (Fog) Apparatus (ASTM B117-2011)

Number of tested samples	1 PC	
Protection of test sample	None	
Base metal and coating	Base metal: Aluminum Coating: Acrylic coating	
Method of cleaning specimens(before test)	Washed by clean, running water	
Method of cleaning specimens(after test)	The specimens shall be carefully removed. Specimens may be gently washed or dipped in clean running water not warmer than 38 °C (100 °F) to remove salt deposits from their surface, and then immediately dried	
Method of supporting or suspending	Supported by plastic rack	
The duration of the test	3600 hours	
Cause and length of time of interruptions in the test	None	
Inspection interval	After 500 hours, every 100 hours	
Inspection result	See test result	
Type of salt and water used in preparing the salt solution	Sodium chloride: analytical grade Water: deionized water	
Salt solution	Dissolving 5±1 parts by weight of salt in 95 parts of water	
	<b>Requirement</b>	<b>Result</b>
Angle of the tested surface were inclined	15~30 ° from the vertical	30 °
Test Temperature	35 °C±2 °C.	35 °C.
Volume of collected solution	1.0~2.0 (mL/h)/80cm <sup>2</sup>	1.4(mL/h)/80cm <sup>2</sup>
pH of collected solution at 23±3 °C	6.5~7.2	7.0
Concentration or specific gravity at 25 °C of solution collected	<b>5±1 mass%</b> , or specific gravity ( Follow table 3)	1.033



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Testing Center Hangzhou (311100)

3<sup>rd</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233

t (86-21) 61402666\*2013

f (86-21) 54500353

www.sgs.com.cn

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666\*2013

f (86-21) 54500353

e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**3. Rating Result:**

**Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments (ASTM D1654-2008)**

**3.1 Procedure B- Evaluation of Unscribed Areas**

Use photographic blister standards given in Practice D714 to describe the results of the exposure test with respect to blisters, and Practice D610 to describe the results of the exposure with respect to rusting.

**Standard Practice for Evaluating Degree of Rusting on Painted Steel Surfaces (ASTM D 610-2008(R2012))**

Sample Description	Rating ( According to table 1 )	Type of deterioration ( According to table 1 )
500 hours	Grade 10	/
600 hours	Grade 10	/
700 hours	Grade 10	/
800 hours	Grade 10	/
900 hours	Grade 10	/
1000 hours	Grade 10	/
1100 hours	Grade 10	/
1200 hours	Grade 10	/
1300 hours	Grade 10	/
1400 hours	Grade 10	/
1500 hours	Grade 10	/
1600 hours	Grade 10	/
1700 hours	Grade 10	/
1800 hours	Grade 10	/
1900 hours	Grade 10	/
2000 hours	Grade 10	/
2100 hours	Grade 10	/
2200 hours	Grade 10	/



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2300 hours	Grade 10	/
2400 hours	Grade 10	/
2500 hours	Grade 10	/
2600 hours	Grade 10	/
2700 hours	Grade 10	/
2800 hours	Grade 10	/
2900 hours	Grade 10	/
3000 hours	Grade 10	/
3100 hours	Grade 10	/
3200 hours	Grade 10	/
3300 hours	Grade 10	/
3400 hours	Grade 10	/
3500 hours	Grade 10	/
3600 hours	Grade 10	/

**Table 1**

Rust grade	Percent of surface rusted
10	Less than or equal to 0.01
9	Greater than 0.01 percent and up to 0.03
8	Greater than 0.03 percent and up to 0.1
7	Greater than 0.1 percent and up to 0.3
6	Greater than 0.3 percent and up to 1.0
5	Greater than 1.0 percent and up to 3.0
4	Greater than 3.0 percent and up to 10.0
3	Greater than 10.0 percent and up to 16.0
2	Greater than 16.0 percent and up to 33.0
1	Greater than 33.0 percent and up to 50.0
0	Greater than 50 percent
Type of deterioration:	S: Spot Corrosion G: General Corrosion P: Pinpoint Corrosion H: Hybrid Corrosion



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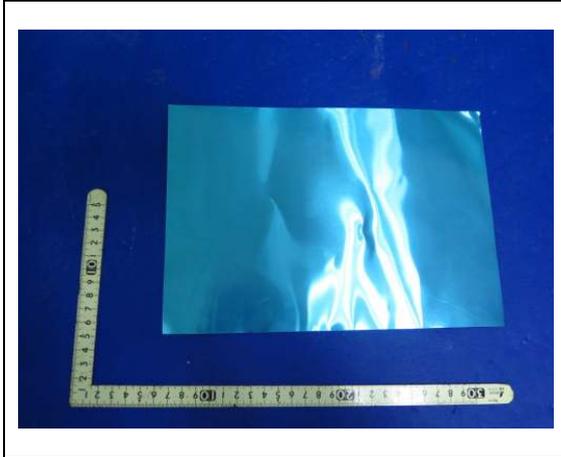
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### Sample Photo:

Test sample



After test (500 hours)



After test (600 hours)



After test (700 hours)



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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666\*2013  
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After test (800 hours)



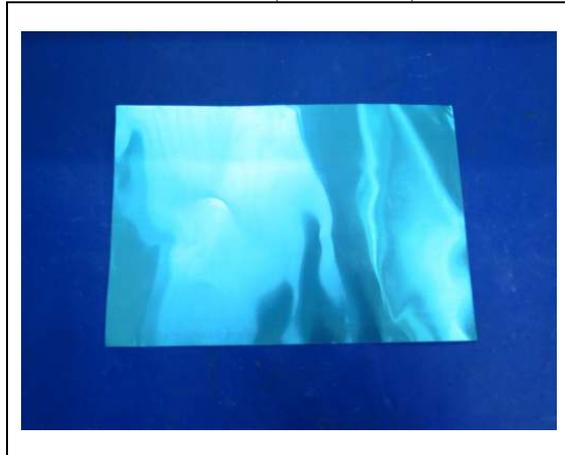
After test (900 hours)



After test (1000 hours)



After test (1100 hours)



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After test (1200 hours)



After test (1300 hours)



After test (1400 hours)



After test (1500 hours)



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After test (1600 hours)



After test (1700 hours)



After test (1800 hours)



After test (1900 hours)



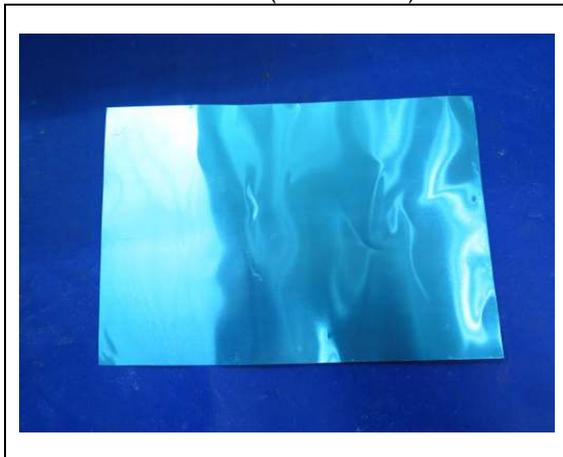
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After test (2000 hours)



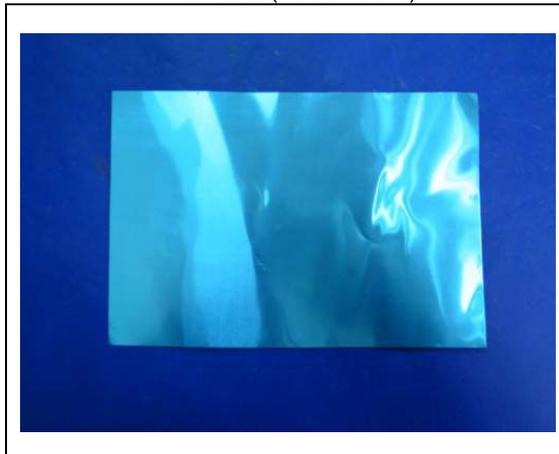
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After test (2200 hours)



After test (2300 hours)



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After test (2400 hours)



After test (2500 hours)



After test (2600 hours)



After test (2700 hours)



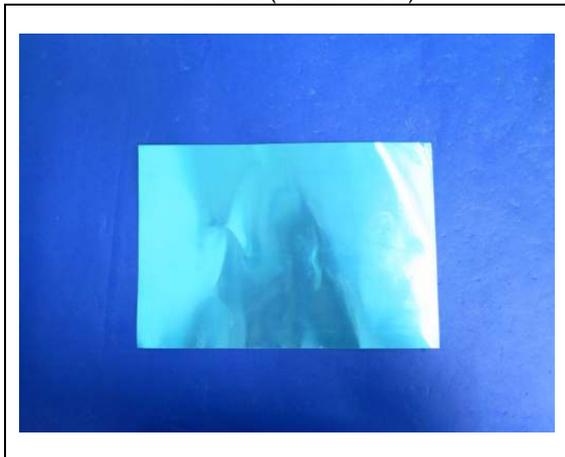
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After test (3000 hours)



After test (3100 hours)



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After test (3200 hours)



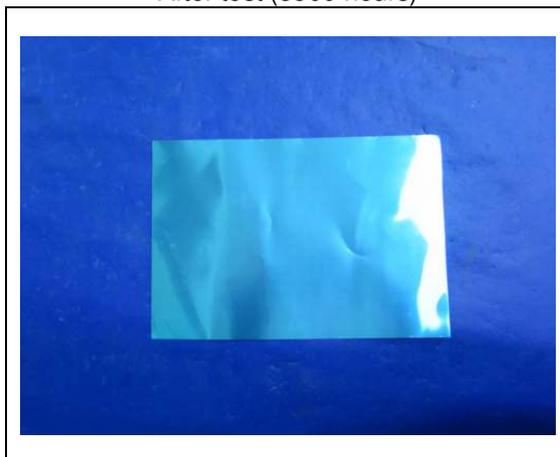
After test (3300 hours)



After test (3400 hours)



After test (3500 hours)



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t (86-21) 61402666\*2013  
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SGS-CSI Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center Hangzhou (311101)

3<sup>rd</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666\*2013  
t (86-21) 61402666\*2013

f (86-21) 54500353  
f (86-21) 54500353

[www.sgs.com](http://www.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)