

## Test Report

Report ID: JC 2016031872H En

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Applicant: Henan Anhuilong Steel Co.,LTD

Address: Room 2-13, No.206 East Street, Guancheng District, Zhengzhou City, Henan Province

Sample Name: Rusty steel plate

Sample Description: Solid

Item/Lot No. : XYP-476

Received Date: 2014-03-24

Completion Date: 2014-04-20

Test Requested: Please refer to next page(s).

Test Method: Please refer to next page(s).

Test Result: Please refer to next page(s).

\*\*\*\*To be continued\*\*\*\*

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Approved by:

魏守良

Issued Date:

2014-04-20



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**Test result:**

Sample No.	Sample Name	Test Items	Test Results	Test Standard
2016031872H	Rusty steel plate	NSS	Please refer to Tab.1	GB/T 10125-2012
		Xenon-arc weathering	Please refer to Tab.2	Refer to GB/T 16422.2-2014
		Adhesion	Adhesion is up to 3 grade	GB/T 9286-1998
		Pencil hardness	2H	GB/T 6739-2006
		Thickness of rust layer	10.0μm	ASTM B 487-85
		Water resistance (48H)	No obvious changes	Internal Method of Lab
		Dirt pickup resistance	No obvious changes	GB/T 9780-2005
		Scrub resistance	No obvious changes	GB/T 9266-2009
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**Note:**

- Test room conditions: temperature(23±2)°C, Humidity(50±5)%RH.
- Adhesion test, adhesive is 3M610.
- Adhesion grade:

Grade	Describe (shedding area A)
0	0%
1	0%<A≤5%
2	5%<A≤15%
3	15%<A≤35%
4	35%<A≤65%
5	A>65%

- Pencil hardness test conditions: load 500g.
- The thickness of rust layer is measured as the average of the five measurements. The thickness of rust layer is not uniform. The results given are for reference only.

\*\*\*\* To be continued \*\*\*\*


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Annex:

Tab 1 The results of NSS


<b>1、 Test Items:</b> NSS
<b>1.1 Test Standard:</b> GB/T 10125-2012
<b>1.2 Test room conditions:</b> Temperature(23±2)℃,Humidity(50±5)%RH
<b>1.3 Test conditions:</b>  1) The concentration of NaCl: 50g/L±5g/L, 2) pH: 6.5~7.2, 3) The temperature of test cases: (35±2)℃; The temperature of saturator: (47±2)℃, 4) Salt fog sedimentation rate: (1~2.5)mL/ (h 80cm <sup>2</sup> ), 5) The experimental time: 200h.
<b>1.4Test result:</b>  After test, take pictures. No obvious changes.
<b>1.5 The photos after test:</b>  
<b>Fig.1 The photo of sample after NSS</b>

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Tab 2 The results of Xenon-arc weathering

<b>1、 Test Items:</b> Xenon-arc weathering
<b>1.1 Test Standard:</b> Refer to GB/T 16422.2-2014
<b>1.2 Test room conditions:</b> Temperature( $23 \pm 2$ ) $^{\circ}\text{C}$ , Humidity( $50 \pm 5$ )%RH
<b>1.3 Test conditions:</b> 1)Irradiance(340nm): $0.51\text{W}/\text{m}^2$ , 2)Black mark temperature: $(65 \pm 2)^{\circ}\text{C}$ , 3)Spray cycle: 18min/102min(Spray time/no water time), 4) The experimental time: 250h.
<b>1.4 Test result:</b> After test, take pictures. No obvious changes.
<b>1.6 The photos after test:</b> 
Fig.2 The photo of sample after Xenon-arc weathering

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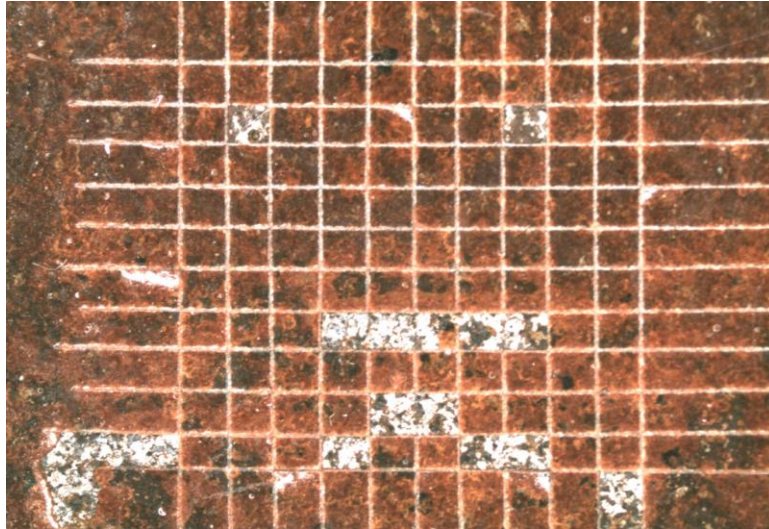


Fig.3 The photo of sample after Adhesion

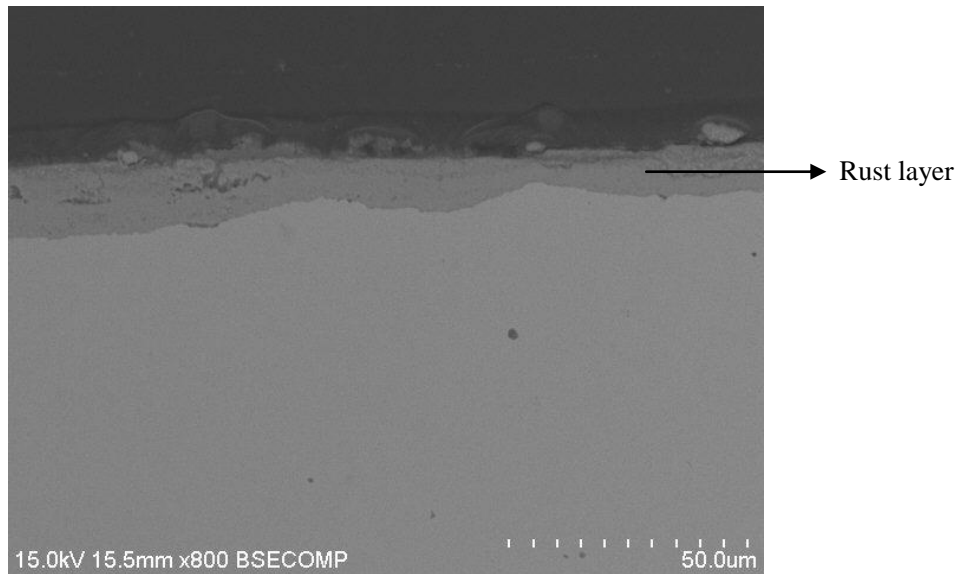


Fig.4 The test position of thickness

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Fig.5 The photo of sample after water resistance (24H)



Fig.6 The photo of sample after water resistance (48H)

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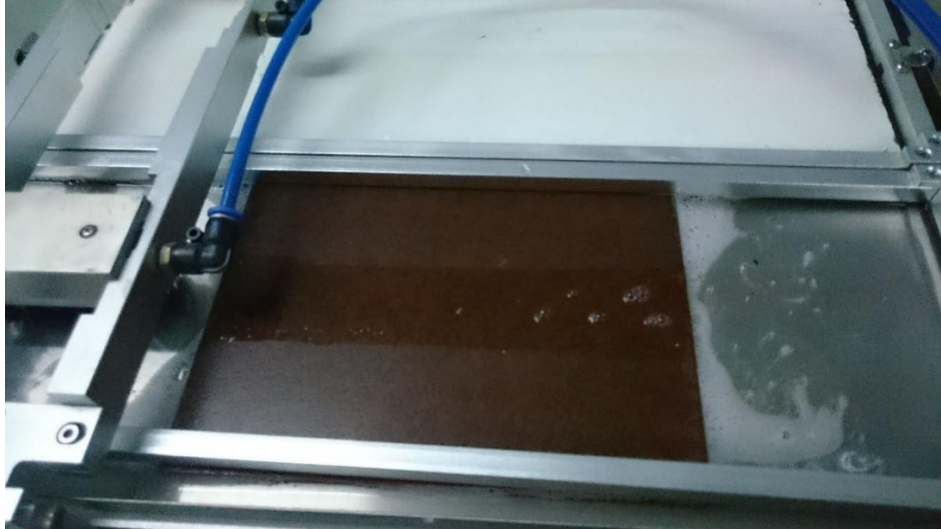


Fig.7 The photo of sample during dirt pickup resistance



Fig.8 The photo of sample after dirt pickup resistance

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Fig.9 The photo of sample during scrub resistance



Fig.10 The photo of sample after scrub resistance

\*\*\*\* To be continued \*\*\*\*

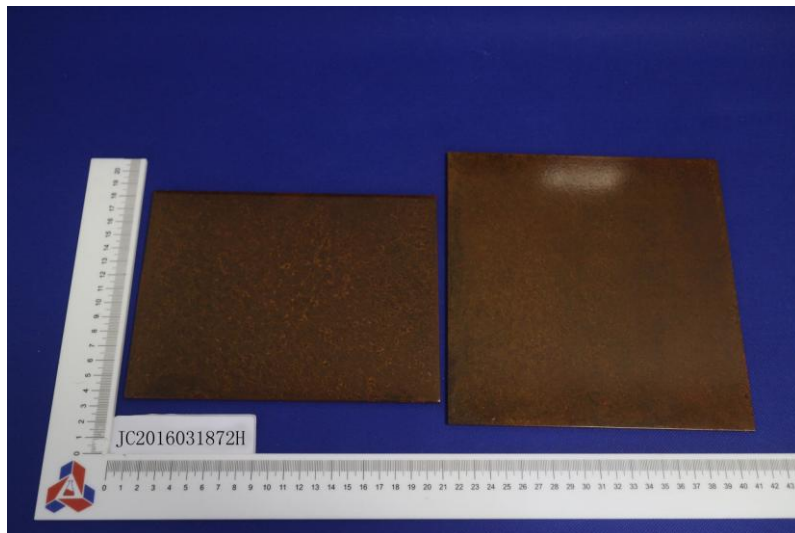


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Sample photo:



The photo on original report with weipu

\*\*\*End of Report\*\*\*

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