

## TEST REPORT

No. : NBIN1704003600ML

Date : May 04, 2017

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CUSTOMER NAME: ALBERT KERBL GMBH  
ADDRESS: HOLZHEIM 8 AMPFING84539 GERMANY

Sample Name : GALVANIZED WIRE  
Manufacturer : DINGZHOU SHENGLI /HEBEI HONGDE  
Buyer : ALBERT KERBL GMBH  
Other Information : 1#DINGZHOU 2#HONGDE

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.

\*\*\*\*\*

Test Required : Coating Thickness Test, Weight of Zinc Coating Test, Neutral Salt Spray Test (NSS), Tensile Test  
Ref. Standard : ISO 2232:1990  
Date of Receipt : Apr 18, 2017  
Testing Start Date : Apr 18, 2017  
Testing End Date : May 04, 2017  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd Ningbo Branch



Flyur Jin  
Authorized signatory



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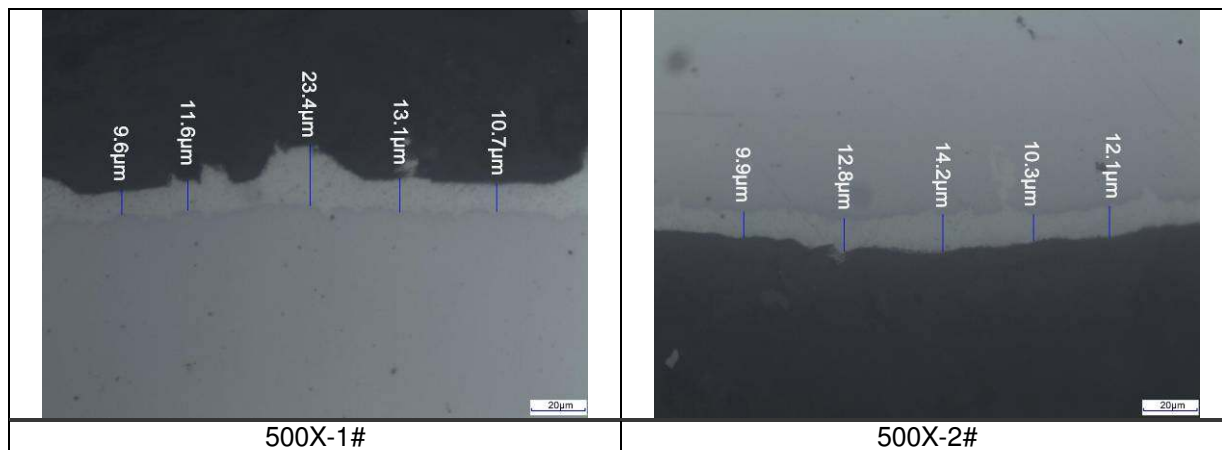
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## 1. Coating Thickness Test:

Test Method: ISO 1463:2003

Sample	Result (µm)					
	1	2	3	4	5	Average
1#	9.6	11.6	23.4	13.1	10.7	13.7
2#	9.9	12.8	14.2	10.3	12.1	11.9

Test Photo:



## 2. Weight of Zinc Coating Test:

Test Method: ISO 1460:1992

Sample	Weight of Zinc coating (g/m <sup>2</sup> )			Average (g/m <sup>2</sup> )
	1	2	3	
1#	65	65	65	65
2#	67	67	67	67

Note: The coating information is supplied by the client.



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### 3. Neutral Salt Spray Test (NSS):

Test Method: ISO 9227:2012

Test Condition:

Concentration of solution collected: (50±5) g/L NaCl

Chamber temperature: (35±2)°C

Volume of salt solution collected: (1.5±0.5) ml/(80cm<sup>2</sup>·h)

pH of collected solution at (25±2)°C: 6.5~7.2

Exposure period: 72h

Test Result:

Sample	Appearance	Appearance rating <sup>Note</sup>
Sample 1#	A lot of black rusting, a lot of white rusting, medium red rusting	0
Sample 2#	A lot of black rusting, a lot of white rusting, medium red rusting	0

Note:

1. Appearance rating refers to ISO 10289:1999, as follows:

Area of defects, A (%)	Appearance rating
0(No defects)	10
0 < A ≤ 0.1	9
0.1 < A ≤ 0.25	8
0.25 < A ≤ 0.5	7
0.5 < A ≤ 1.0	6
1.0 < A ≤ 2.5	5
2.5 < A ≤ 5.0	4
5.0 < A ≤ 10	3
10 < A ≤ 25	2
25 < A ≤ 50	1
50 < A	0

2. Test specimen is cut from the sample.



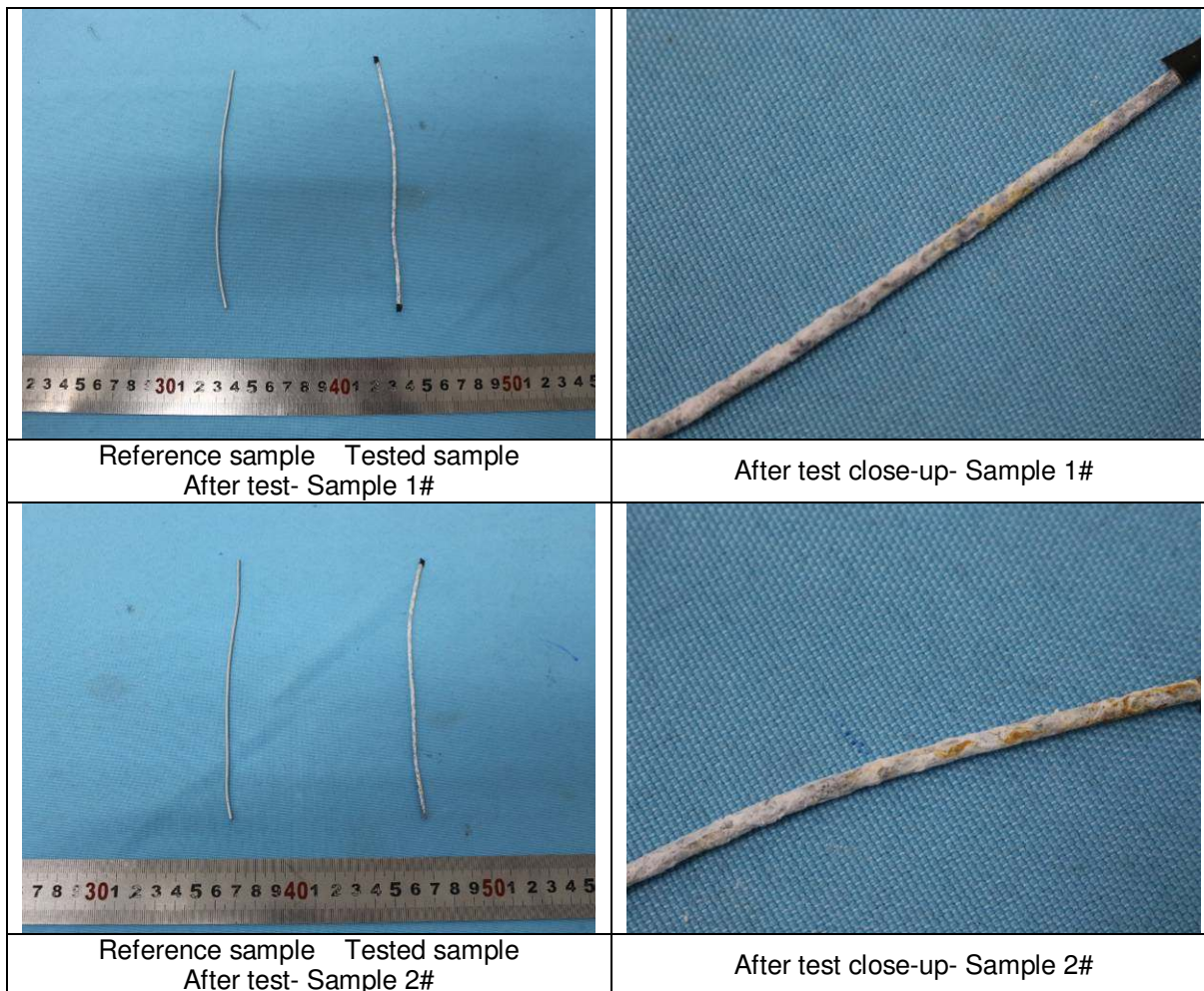
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Salt Spray Test Chamber	AZSA1600	NBML-123	2016/05/27	2017/05/26



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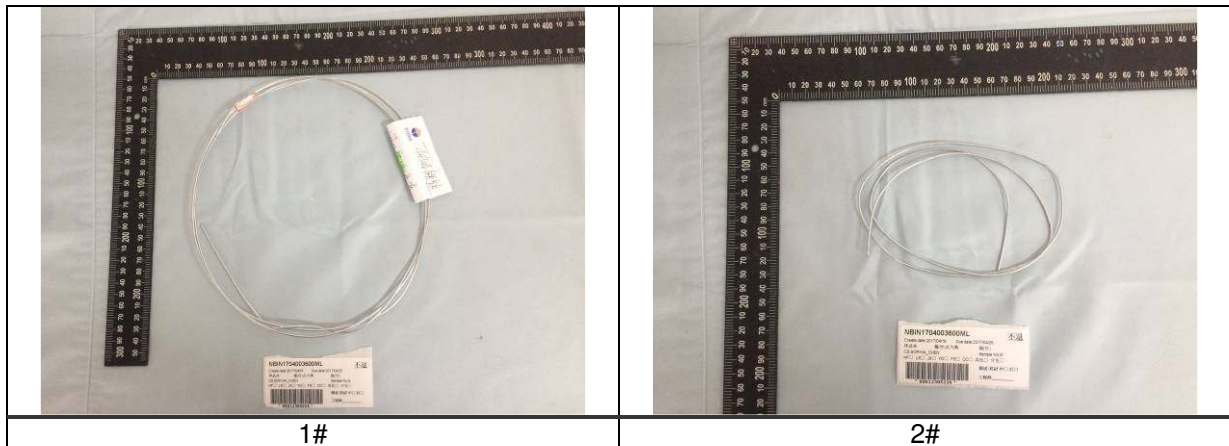
## 4. Tensile Test:

Test Method: ISO 6892-1:2016

Specimen No.	Test Condition	Test Result
		Tensile Strength (R <sub>m</sub> )
1#	Specimen diameter: 1.755 mm Grip separation:150 mm	432 MPa
2#	Specimen diameter: 1.769 mm Grip separation:150 mm	449 MPa

Note: Test specimens were cut from the sample.

### Photo:



- All above tests were carried out by a SGS laboratory.

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



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