



Test report

Report Number: MU240726009C-01

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Client Name: Yantai Fuxinda Bimetallic Co., Ltd.

Address of the client: No. 575, Wuwu Road, Muping District, Yantai City, Shandong Province

Sample Name: Copper-Aluminum Alloy Composite Busbar Parts

Sample models: 1.16x3, 30% T2/8030, nickel plated; 2.16x3, 30% T2/8030, tin plated.

Sample quantity: 10 pieces

Other notes...:

The above information was provided by the client, and our company is not responsible for its authenticity.

Sample Number: U240726020-021

Sample received date: July 26, 2024

Test completion date: August 10, 2024

Report release date: August 30, 2024

Test information:

| Serial Number | Testing items | Test Results |
|---------------|-------------------------------------|----------------|
| 1 | Low-temperature test with live wire | See Appendix 2 |

approve:

Suzhou Meixin Testing Technology Co., Ltd.

Verification code: qgqfv

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Appendix 1

Sample image:

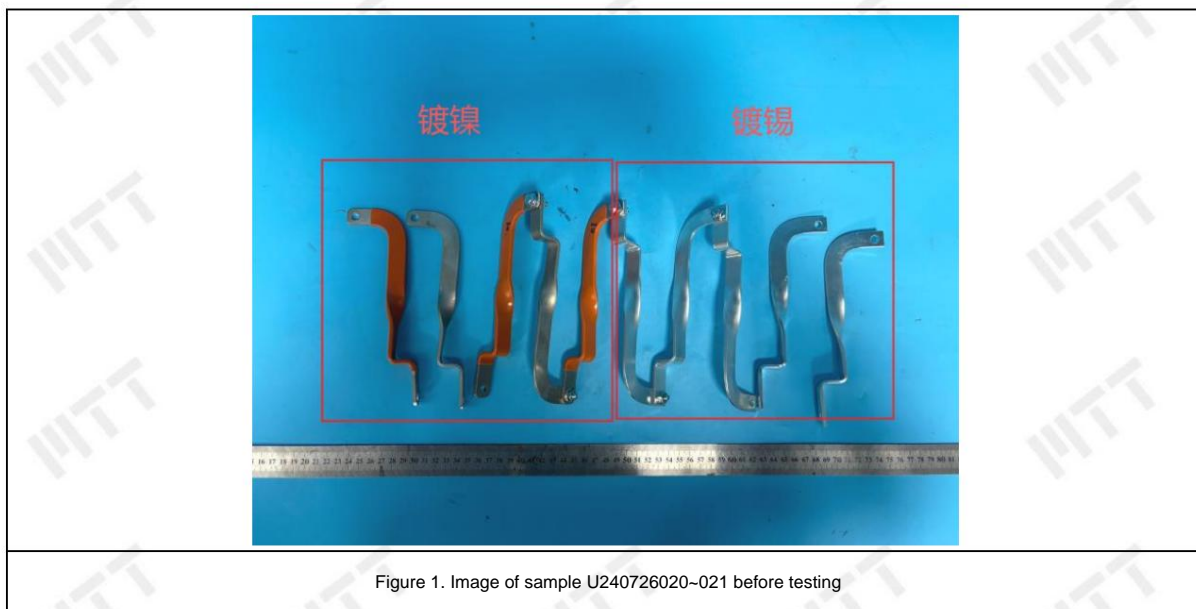


Figure 1. Image of sample U240726020-021 before testing

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Appendix 2

Testing item: Low-temperature electrical test

1. Testing environment:

Ambient temperature: 26.3 \bar{y} ; Humidity: 56%RH

2. Sample testing:

| Sample number | Sample Name | model | Sample quantity | Sample description |
|------------------|--|--|-----------------|--------------------------------------|
| U240726020-01-05 | Copper-aluminum alloy composite busbar parts | 16x3, 30%T2/8030, Nickel plating on surface | 5 | copper-aluminum alloy composite bars |
| U240726021-01-05 | Copper-aluminum alloy composite busbar parts | 16x3, 30%T2/8030, Surface tin plating | 5 | copper-aluminum alloy composite bars |

3. Testing equipment:

| Serial Number | Equipment Name | Equipment Model | Calibration Date |
|---------------|--|-----------------|------------------|
| 1 | High and low temperature humidity test chamber | NTH200-70W | 2024.02.20 |
| 2 | DC regulated power supply | 10V 400A | 2024.06.14 |

4. Testing standards:

According to customer requirements

Building No.3, No.415, Changyang Street, Suzhou Industrial Park, Suzhou, Jiangsu, China

Room A1002, Research Office Building, 272 Fengli Street, Suzhou Industrial Park, Suzhou, Jiangsu, China

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5. Testing conditions:

1. Low temperature: -40 \bar{y} , time: 168 hours;
2. Measure the temperature rise of the sample before and after the test. During the test, the power supply is 190A DC, and the temperature rise is monitored every 1 minute.
3. Tin-plated 5 pieces, nickel-plated 5 pieces, totaling 10 pieces (3 pieces in each group are charged, and 2 pieces are not charged);
4. After testing, observe the sample surface for any discoloration or cracks.
5. The monitoring locations are shown in the image below;



6. Test Results:

| Sample number | Test results |
|----------------|---|
| U240726020~021 | After testing, a visual inspection of the sample surface revealed no discoloration or cracks. Temperature rise data are shown in the table below. |

| monitoring point | Collection ($^{\circ}\text{C}$) | | | | Environment ($^{\circ}\text{C}$) | Temperature rise ($^{\circ}\text{C}$) | | | |
|--------------------------|-----------------------------------|-----------|--------|--------|------------------------------------|---|-----------|--------|--------|
| | 1. Nickel | 2. Nickel | 3. Tin | 4. Tin | | 1. Nickel | 2. Nickel | 3. Tin | 4. Tin |
| 0H | 69.0 | 66.5 | 72.2 | 72.2 | 29.6 | 39.4 | 36.9 | 42.6 | 42.6 |
| 10~11H (average) -31.7 | | -32.5 | -31.1 | -31.5 | -40.5 | 8.8 | 8.0 | 9.3 | 9.0 |
| 157~158H (average) -31.7 | | -32.5 | -31.3 | -31.6 | -40.4 | 8.7 | 7.9 | 9.1 | 8.8 |
| 168H | 73.6 | 70.1 | 75.8 | 76.0 | 33.2 | 40.4 | 36.9 | 42.6 | 42.8 |

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7. Image detection:

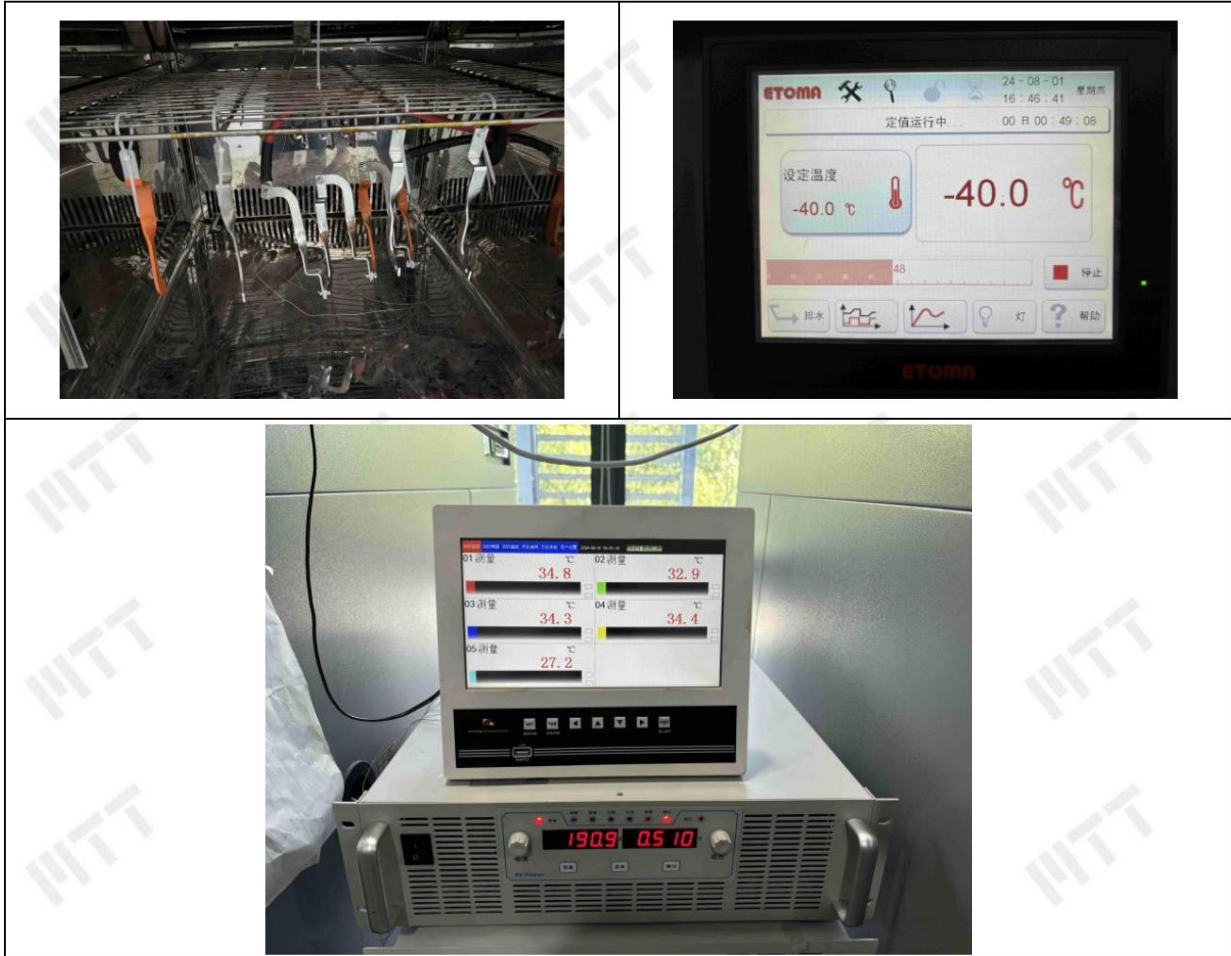
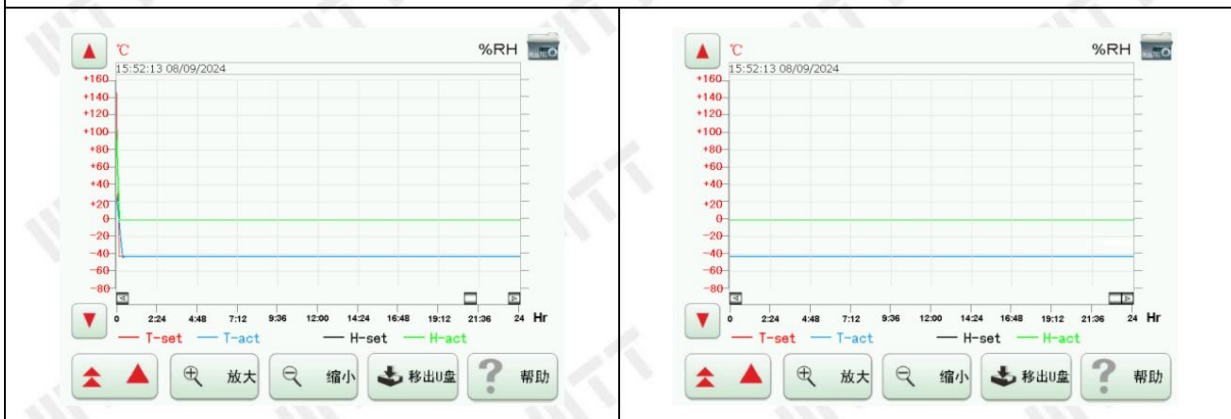


Figure 2. Images of sample U240726020-021 during testing.

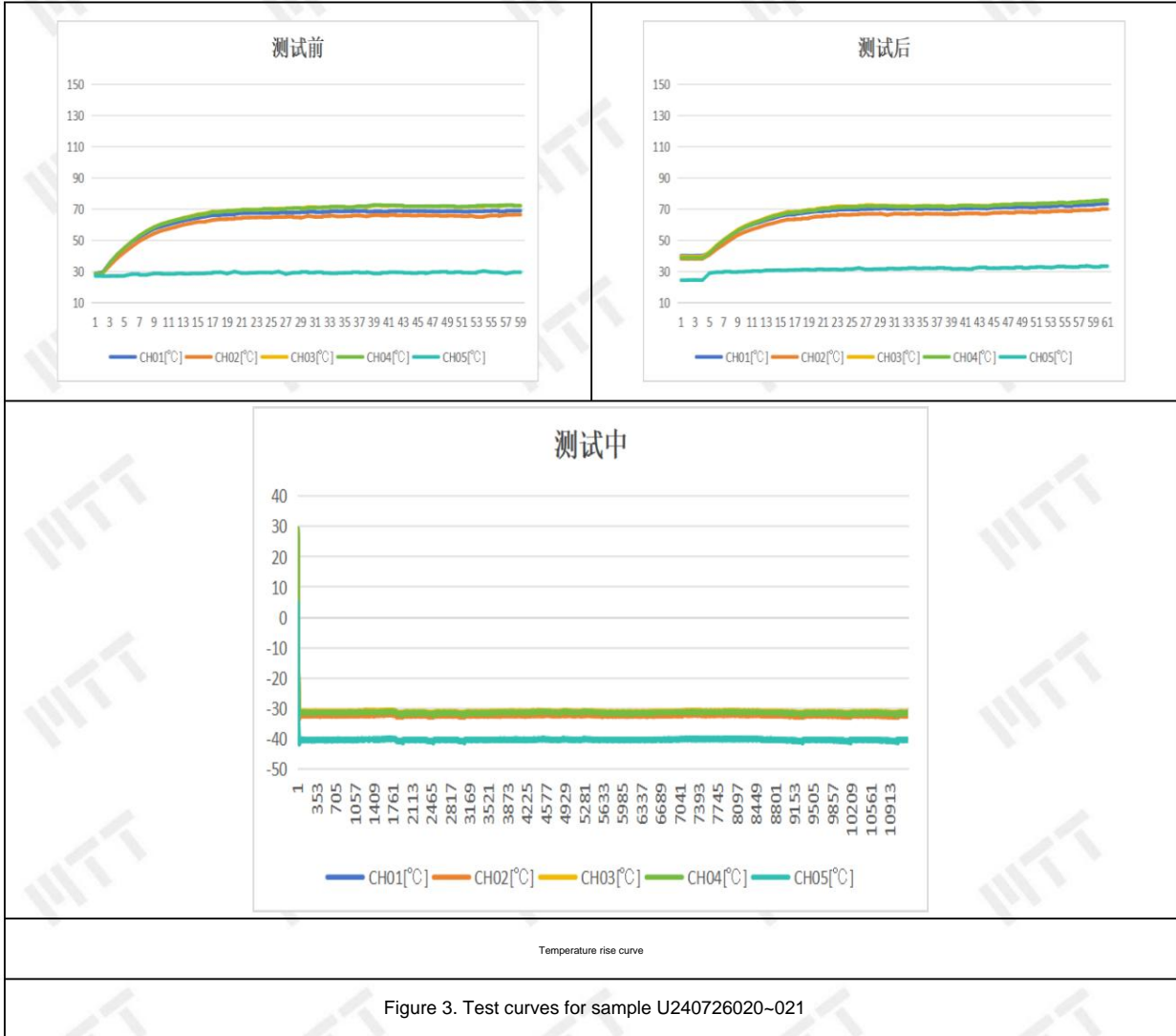


Temperature curve

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Figure 4. Images of sample U240726020-021 after testing

Report End

statement:

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2. This report may not be reproduced in any part without the company's written consent.
3. The client is responsible for the accuracy, authenticity, and completeness of the samples and information submitted for testing. Our company is not responsible for the accuracy or authenticity of the information provided by the client.

Verification of authenticity and completeness.

4. This report is only responsible for the results of the tested sample, and the results only reflect the evaluation of the sample.
5. The results in this report are based on descriptions and tests of the tested samples at specific times, using specific methods and applicable standards. These results may vary under different environmental conditions or using different methods.
- Different methods and standards used to test the sample may lead to different conclusions.
6. The data results in this report are intended for internal product development, quality control, scientific research, teaching, and other purposes.
7. If the client has any objection to the results of this report, please submit it in writing to our company within 15 days from the date of publication of the report. Failure to do so within the time limit will be deemed as acceptance of this report.

result.