

## TEST REPORT

No. : NJIN2512003221ML01\_EN

Date : 2025-12-17

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CUSTOMER NAME: YUTUNG INDUSTRIAL LIMITED  
ADDRESS: 3-1309 HONGMING MALL, NO. 558 JIANGHAI AVE., CHONGCHUAN DISTRICT, NANTONG, JIANGSU, CHINA

Sample Name : Copper Casting Sample  
Product or Lot No. : YT2574/IAP552632320  
Material and Mark : C93700  
Heat No. : 202510081

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.

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Test Required : Chemical Composition Analysis, Brinell Hardness Test, Tensile Test  
Date of Receipt : 2025-12-04  
Testing Period : 2025-12-04 ~ 2025-12-17  
Test Location : 1-2/F., Building 2, No.9, Yongfeng Road, Qinhuai District, Nanjing, Jiangsu, China  
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. Nanjing Branch.

*Steven Zhu*  
朱宇

Steven Zhu  
Authorized signatory



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## 1. Chemical Composition Analysis

Requirement: According to ASTM B271/B271M-23 Copper Alloy UNS No. C93700

| Element | Test Method       | Req. (%)  | Result001 (%) |
|---------|-------------------|-----------|---------------|
| Pb      | ICP-OES           | 8.0~11.0  | 9.25          |
| Fe      | GB/T 5121.27-2008 | ≤0.70     | 0.02          |
| Sb      | GB/T 5121.27-2008 | ≤0.50     | 0.09          |
| Sn      | GB/T 5121.27-2008 | 9.0~11.0  | 9.20          |
| Ni      | GB/T 5121.27-2008 | ≤0.50     | 0.30          |
| Zn      | GB/T 5121.27-2008 | ≤0.8      | 0.50          |
| P       | GB/T 5121.27-2008 | ≤0.10     | 0.003         |
| Si      | GB/T 5121.27-2008 | ≤0.005    | <0.001        |
| Al      | GB/T 5121.27-2008 | ≤0.005    | 0.007         |
| Cu      | YS/T 910-2013     | 78.0~82.0 | 80.47         |
| S       | GB/T 5121.4-2008  | ≤0.08     | 0.05          |

Note: 1. Test project/method is not within the CNAS accredited scope.

2. Test project/method was carried out by subcontractors.

## 2. Brinell Hardness Test

Test Method: ASTM E10-23

| Test item | Test position | Result |      |      | Average |
|-----------|---------------|--------|------|------|---------|
| HBW 5/250 | Core          | 80.1   | 85.5 | 78.6 | 81.4    |



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### 3. Tensile Test

Test Method: ASTM E8/E8M-24

| Test item | Specimen type  | Tensile strength (MPa) | Yield strength (0.5% EUL) (MPa) | Elongation after fracture G=50mm (%) |
|-----------|----------------|------------------------|---------------------------------|--------------------------------------|
| Req.      | -              | ≥207                   | ≥83                             | ≥15                                  |
| Result    | Round specimen | 271                    | 153                             | 21                                   |

Note: The requirement is specified in ASTM B271/B271M-23 Copper Alloy UNS No. C93700.



Sample Photo

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



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