



# 检测报告 Test Report

报告编号/Report No.: B25WT035729

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报告日期/Report Date: 2025-05-19

受控号/Control No.: XAHT-JS-58

委托单位: 西安中钛金属有限公司  
Customer

客户地址: 西安市未央区世纪未来中心16楼1605室  
Customer Address

委托人: /  
Client

样品名称: 钛锭  
Sample Name

委托类别: 委托检测  
Category

样品规格: /  
Sample Size

型号/牌号: Ti6Al4VELI  
Grade

炉批号: 25022  
Heat/Lot No.

样品状态: /  
Sample State

热处理制度: /  
Heat Treatment

样品数量: 3  
Sample Quantity

其他说明: /  
Other Description

以上信息及样品由客户提供, 公司不承担证实客户提供信息的真实性、准确性和(或)完整性的责任。  
The above information and samples are provided by the customer, and the company does not assume the responsibility for the authenticity, accuracy and/or completeness of the information.

收样日期: 2025-05-18  
Receipt Date

样品描述: 屑状  
Sample Description

检测日期: 2025-05-18~2025-05-19  
Test Date

判定标准: /  
Criterion

检测项目: 化学成分  
Test Items

检测方法: ASTM E2371-21a, ASTM E1941-10-(2016), ASTM E1447-22, ASTM E1409-13(2021)  
Test Methods

主检: 曹海华  
Appraiser

审核: 邢银娟  
Checker



声明: 1.本报告无报告专用章、主检、审核和批准人签字无效。Without the official report seal and the signature of appraiser, checker and approver, the report is invalid. 2.检测结果仅对来样负责。The results shown in this test report refer only to the received sample. 3.对检测报告若有异议。请于收到报告之日起十五天内向实验室提出。Any objection to this report, please submit it to the laboratory within 15 days. 4.不得部分复制报告。This document can not be reproduced except in full. 5.标注\*项目不在公司CMA和CNAS范围内, 结果仅供多考。Items marked with\* are not within the scope of CMA and CNAS, and the results are for reference only.

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### 1.化学成分 Chemical Composition

| 项目信息<br>Items Information |     | 样品编号 Sample Number |        |   |   | 检测方法<br>Test Method  |
|---------------------------|-----|--------------------|--------|---|---|----------------------|
|                           |     | 上部                 | 下部     | — | — |                      |
| Al                        | w/% | 6.21               | 6.29   | — | — | ASTM E2371-21a       |
| Fe                        | w/% | 0.155              | 0.152  | — | — | ASTM E2371-21a       |
| V                         | w/% | 4.26               | 4.16   | — | — | ASTM E2371-21a       |
| C                         | w/% | 0.006              | 0.009  | — | — | ASTM E1941-10-(2016) |
| H                         | w/% | 0.0010             | 0.0011 | — | — | ASTM E1447-22        |
| N                         | w/% | 0.003              | 0.003  | — | — | ASTM E1409-13(2021)  |
| O                         | w/% | 0.112              | 0.113  | — | — | ASTM E1409-13(2021)  |
| 备注 Remark                 | /   |                    |        |   |   |                      |

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# 检测报告 Test Report



报告编号/Report No.: B25WT085492

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报告日期/Report Date: 2025-08-02

受控号/Control No.: XAHT-JS-58

委托单位: 西安中钛金属有限公司  
Customer

客户地址: 西安市未央区世纪未来中心16楼1605室  
Customer Address

委托人: 李玲  
Client

样品名称: 钛棒  
Sample Name

委托类别: 委托检测  
Category

样品规格:  $\Phi 10.0 \times 3000\text{mm}$   
Sample Size

型号/牌号: Ti6Al4VELI  
Grade

炉批号: 25022  
Heat/Lot No.

样品状态: M  
Sample State

热处理制度: /  
Heat Treatment

样品数量: 2  
Sample Quantity

其他说明: /  
Other Description

以上信息及样品由客户提供, 公司不承担证实客户提供信息的真实性、准确性和(或)完整性的责任。  
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收样日期: 2025-08-01  
Receipt Date

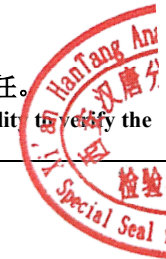
样品描述: 棒状  
Sample Description

检测日期: 2025-08-01~2025-08-02  
Test Date

判定标准: ASTM F136-13  
Criterion

检测项目: 室温拉伸, 硬度试验, 高倍  
Test Items

检测方法: ASTM E8/E8M-22, ASTM E92-23, AMS 2643F  
Test Methods



主检: 李栋  
Appraiser

审核: 武晶晶  
Checker



声明: 1.本报告无报告专用章、主检、审核和批准人签字无效。Without the official report seal and the signature of appraiser, checker and approver, the report is invalid. 2.检测结果仅对来样负责。The results shown in this test report refer only to the received sample. 3.对检测报告若有异议, 请于收到报告之日起十五日内向实验室提出。Any objection to this report, please submit it to the laboratory within 15 days. 4.不得部分复制报告。This document can not be reproduced except in full. 5.标注\*项目不在公司CMA 和CNAS 范围内, 结果仅供多考。Items marked with \* are not within the scope of CMA and CNAS, and the results are for reference only.

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### 1. 室温拉伸 Tension Test Room Temperature

| 项目信息<br>Items Information                                    |     | 样品编号 Sample Number |   |   |   | 检测方法<br>Test Method |
|--|-----|--------------------|---|---|---|---------------------|
|  |     | /                  | — | — | — |                     |
| 抗拉强度 ( $R_m$ )<br>Tensile Strength                           | MPa | 985                | — | — | — | ASTM E8/E8M-22      |
| 规定塑性延伸强度<br>( $R_{p0.2}$ ) Proof strength, plastic extension | MPa | 907                | — | — | — | ASTM E8/E8M-22      |
| 断后伸长率 ( $A_{4D}$ )<br>Elongation in A4D                      | %   | 21.0               | — | — | — | ASTM E8/E8M-22      |
| 断面收缩率 (Z)<br>Percentage reduction of area                    | %   | 58                 | — | — | — | ASTM E8/E8M-22      |
| 备注 Remark  | /   |                    |   |   |   |                     |


 检测专用

检测专用

### 2. 硬度试验 Hardness Test

| 项目信息<br>Items Information     |    | 样品编号 Sample Number             |   |   |   | 检测方法<br>Test Method |
|-------------------------------|----|--------------------------------|---|---|---|---------------------|
|                               |    | /                              | — | — | — |                     |
| 维氏硬度 (HV)<br>Vickers Hardness | HV | 298 304<br>301 (截面)<br>HV10/15 | — | — | — | ASTM E92-23         |
| 备注 Remark                     | /  |                                |   |   |   |                     |


 检测专用

### 3. 高倍 Metallographic Microstructure

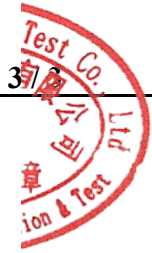
| 项目信息<br>Items Information |   | 样品编号 Sample Number                                   |   |   |   | 检测方法<br>Test Method |
|---------------------------|---|--|---|---|---|---------------------|
|                           |   | /  | — | — | — |                     |
| 高倍组织+评级                   | / | 显微组织为 $\alpha+\beta$ 两相区充分变形并经退火得到的组织,组织类型符合图A.1的a)。 | — | — | — | AMS 2643F           |
| 备注 Remark                 | / |  |   |   |   |                     |

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备注 Remark

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