

## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 1 of 14



CUSTOMER NAME: HERRAMIENTAS LORENZO SALVADOR,S.L  
ADDRESS: C/SOR MARÍA DE AGREDA 47 DUPL, Z.C-28017 MADRID,SPAIN

Sample Name : TUNGSTEN THREADED ROD J2H231WX434001  
Product Specification :  $\phi 22.5 \times 434$   
Manufacturer : XIAMEN GOLDEN EGRET SPECIAL ALLOY CO., LTD  
Buyer : Herramientas Lorenzo Salvador,s.l  
Material and Mark : GH231

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.

\*\*\*\*\*

SGS Ref. No. : SNT23081725, TJIN2308003321ML01-1\_CN, SHIN2308013630ML01-1\_CN  
Other Ref. No. : SHIN2308013630ML01-2\_CN  
Date of Receipt : 2023-08-11  
Testing Period : 2023-08-11 ~ 2023-09-12  
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. Xiamen Branch.

Hank Li  
Authorized signatory



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 2 of 14

### 1. Tensile test

Test method: ISO 6892-1:2019

Sample No.	Specimen type	Tensile strength ( $R_m$ ) (MPa)	Proof strength ( $R_{P0.2}$ ) (MPa)	Elongation after fracture (A) $L_o = 5.65\sqrt{S_0}$ (%)
003	Round specimen $d_0=5\text{mm}$	1062	940	21.0

### 2. Density test

Test method: ISO 3369:2006

Test conditions: distilled water

Environmental temperature: 25.4 °C

Sample No.	Test result
001-1	17.56g/cm <sup>3</sup>
001-2	17.57g/cm <sup>3</sup>

Note: The liquid density was 0.9970g/cm<sup>3</sup>



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 3 of 14

### 3. Chemical composition analysis\*

Element	Test method	Result 005 (%)
Co	ASTM E1473-09	0.29
Fe	ASTM E1473-09	2.43
Mn	ASTM E1473-09	0.04
Ni	ASTM E1473-09	4.23

### 4. Hardness test\*

Test method: ISO 6507-1:2018

Sample No.	Test position	Result (HV30)		
002	Core	379	372	373



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 4 of 14

### 5. Metallographic analysis\*

Reference standard: GB/T13298-2015

Etching reagent: Copper chloride hydrochloric acid aqueous solution

Step 1. Sampling from the specific site

Step 2. Mounting (Longitudinal / Transverse), Cleaning, polishing and etching.

Step 3. Observing with the microscope.

Test result:

Sample No.	Metallographic structure of the sample
002	Tungsten particles+bonding phase, as Figure 1

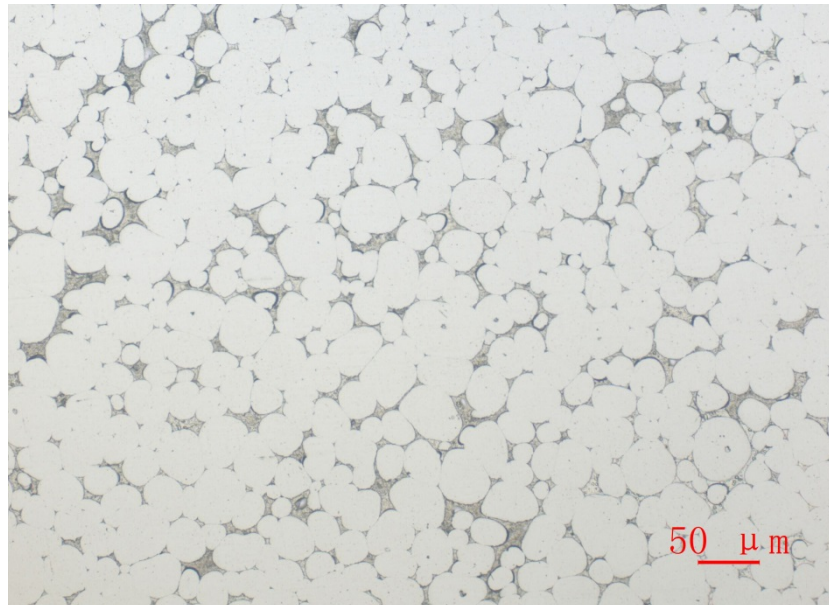


Figure 1 Metallographic Structure of Sample 200×



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 5 of 14

6. Dimension test\*

Test standard: Customer drawing

Test results:

Weight unit:g; Other unit:mm

Test Item		Theoretical Value			Results			Test equipment
NO	Dimension	Nominal	Tolerance (+)	Tolerance (-)	Measure	Out tol	Conclusion	
004-1: 20#								
1	Φ	16.9	0	0.02	16.893	----	OK	CMM
2	Φ	17.1	0	0.25	16.999	----	OK	CMM
3	Φ	26	0	0.05	25.993	----	OK	CMM
4	Φ	19	0	0.2	18.946	----	OK	CMM
5	Φ	25	0	0.1	24.929	----	OK	CMM
6	Φ	22.5	0	0.1	22.449	----	OK	CMM
7	----	16	0.2	0.2	15.898	----	OK	Projector
8	----	22	0.2	0.2	22.190	----	OK	Projector
9	----	84.4	0.3	0.3	84.420	----	OK	CMM
10	----	135.25	0.5	0.5	135.304	----	OK	CMM
11	----	259.5	0.5	0.5	259.443	----	OK	CMM
12	----	4.99	0.2	0.2	4.991	----	OK	CMM
13	----	5	0.2	0.2	4.995	----	OK	CMM
14	----	M19*1.5	6g	6g	----	----	OK	Go no go gauge
15	----	M21*1.5	6g	6g	----	----	OK	Go no go gauge



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 6 of 14

Test Item		Theoretical Value			Results			Test equipment
NO	Dimension	Nominal	Tolerance (+)	Tolerance (-)	Measure	Out tol	Conclusion	
16	----	19	0.2	0.2	18.868	----	OK	Projector
17	----	14	0.2	0.2	14.179	----	OK	Projector
18	----	434	0	0.5	433.928	----	OK	CMM
19	----	247.01	0.05	0	247.056	----	OK	Projector
20	Coaxiality	0	0.02	0	0.005	----	OK	CMM
21	Perpendicularity	0	0.02	0	0.004	----	OK	CMM
22	Coaxiality	0	0.02	0	0.009	----	OK	CMM
23	Φ	19	0	0.02	18.994	----	OK	CMM
24	Φ	22.5	0	0.05	22.491	----	OK	CMM
25	----	4.5	0.1	0.1	4.428	----	OK	CMM
26	Weight	3157	90	90	3090	----	OK	Electronic balance
004-2: 48#								
1	Φ	16.9	0	0.02	16.896	----	OK	CMM
2	Φ	17.1	0	0.25	17.010	----	OK	CMM
3	Φ	26	0	0.05	25.997	----	OK	CMM
4	Φ	19	0	0.2	18.958	----	OK	CMM
5	Φ	25	0	0.1	24.943	----	OK	CMM
6	Φ	22.5	0	0.1	22.451	----	OK	CMM
7	----	16	0.2	0.2	15.894	----	OK	Projector



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 7 of 14

Test Item		Theoretical Value			Results			Test equipment
NO	Dimension	Nominal	Tolerance (+)	Tolerance (-)	Measure	Out tol	Conclusion	
8	----	22	0.2	0.2	22.130	----	OK	Projector
9	----	84.4	0.3	0.3	84.361	----	OK	CMM
10	----	135.25	0.5	0.5	135.293	----	OK	CMM
11	----	259.5	0.5	0.5	259.448	----	OK	CMM
12	----	4.99	0.2	0.2	4.990	----	OK	CMM
13	----	5	0.2	0.2	4.997	----	OK	CMM
14	----	M19*1.5	6g	6g	----	----	OK	Go no go gauge
15	----	M21*1.5	6g	6g	----	----	OK	Go no go gauge
16	----	19	0.2	0.2	19.133	----	OK	Projector
17	----	14	0.2	0.2	13.888	----	OK	Projector
18	----	434	0	0.5	433.925	----	OK	CMM
19	----	247.01	0.05	0	247.043	----	OK	Projector
20	Coaxiality	0	0.02	0	0.009	----	OK	CMM
21	Perpendicularity	0	0.02	0	0.006	----	OK	CMM
22	Coaxiality	0	0.02	0	0.010	----	OK	CMM
23	Φ	19	0	0.02	18.998	----	OK	CMM
24	Φ	22.5	0	0.05	22.498	----	OK	CMM
25	----	4.5	0.1	0.1	4.450	----	OK	CMM
26	Weight	3157	90	90	3085	----	OK	Electronic balance



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 8 of 14

Test Item		Theoretical Value			Results			Test equipment
NO	Dimension	Nominal	Tolerance (+)	Tolerance (-)	Measure	Out tol	Conclusion	
004-3: 80#								
1	Φ	16.9	0	0.02	16.890	----	OK	CMM
2	Φ	17.1	0	0.25	16.997	----	OK	CMM
3	Φ	26	0	0.05	25.994	----	OK	CMM
4	Φ	19	0	0.2	18.958	----	OK	CMM
5	Φ	25	0	0.1	24.947	----	OK	CMM
6	Φ	22.5	0	0.1	22.452	----	OK	CMM
7	----	16	0.2	0.2	15.917	----	OK	Projector
8	----	22	0.2	0.2	22.194	----	OK	Projector
9	----	84.4	0.3	0.3	84.399	----	OK	CMM
10	----	135.25	0.5	0.5	135.283	----	OK	CMM
11	----	259.5	0.5	0.5	259.483	----	OK	CMM
12	----	4.99	0.2	0.2	4.998	----	OK	CMM
13	----	5	0.2	0.2	4.994	----	OK	CMM
14	----	M19*1.5	6g	6g	----	----	OK	Go no go gauge
15	----	M21*1.5	6g	6g	----	----	OK	Go no go gauge
16	----	19	0.2	0.2	18.873	----	OK	Projector
17	----	14	0.2	0.2	14.173	----	OK	Projector



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 9 of 14

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NO	Dimension	Nominal	Tolerance (+)	Tolerance (-)	Measure	Out tol	Conclusion	
18	----	434	0	0.5	433.946	----	OK	CMM
19	----	247.01	0.05	0	247.014	----	OK	Projector
20	Coaxiality	0	0.02	0	0.008	----	OK	CMM
21	Perpendicularity	0	0.02	0	0.004	----	OK	CMM
22	Coaxiality	0	0.02	0	0.007	----	OK	CMM
23	Φ	19	0	0.02	18.995	----	OK	CMM
24	Φ	22.5	0	0.05	22.487	----	OK	CMM
25	----	4.5	0.1	0.1	4.481	----	OK	CMM
26	Weight	3157	90	90	3090	----	OK	Electronic balance

Note: Drawing of the sample(s) measured in this report please refer to annex.



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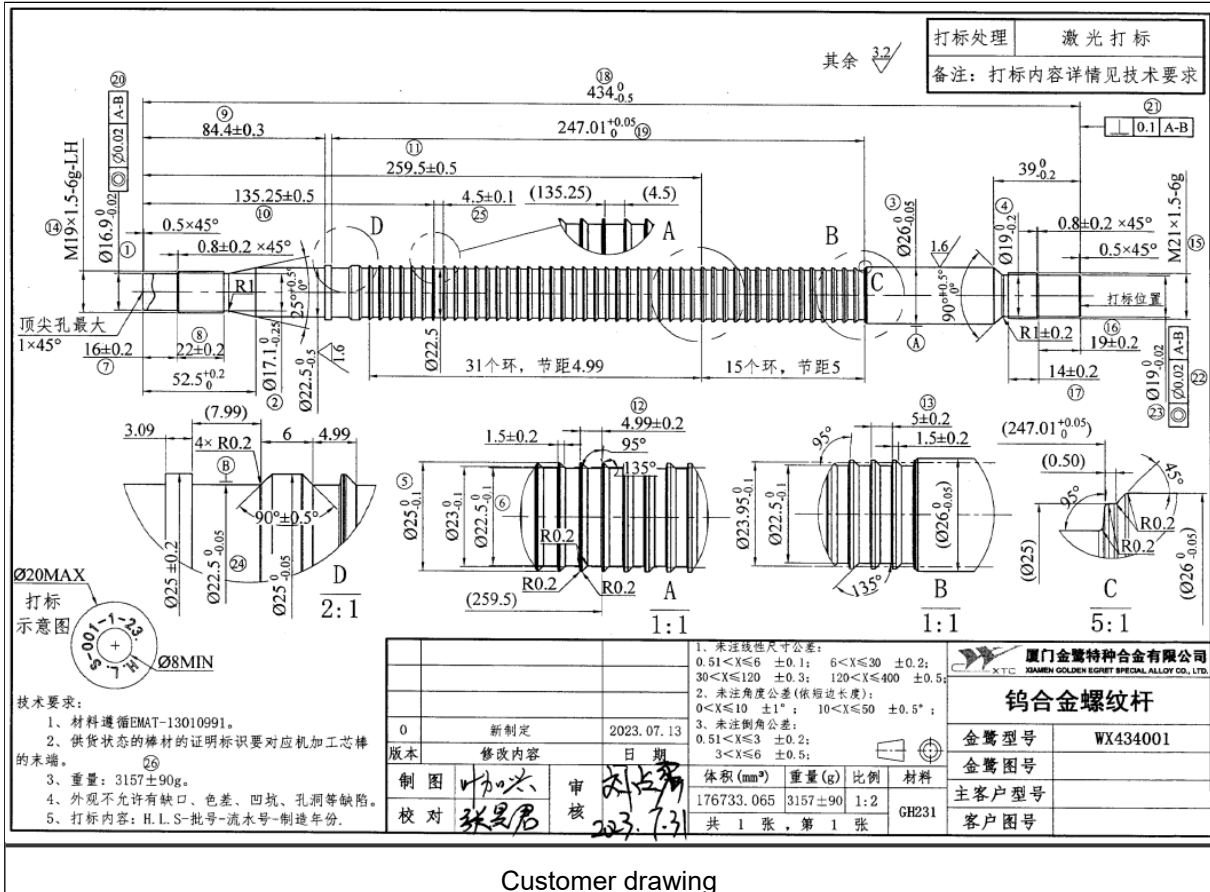
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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 10 of 14



Customer drawing

## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 11 of 14

### 7. Dye Penetrant Testing (NDT)\*

Sample Name	Tungsten Threaded Rod J2H 231WX434001	Product Specification	φ22.5*434
Material and Mark	GH231	Product or Lot No.	001
Testing Method	II-C-e	Testing time	Designated by the client
Penetrant Type	HP-ST	Area Tested	Visible surface
Penetration Time	10 Min.	Surface Condition	clean
Remover	HR-ST	Sensitivity Block	B5
Developer Type	HD-ST	Viewing Condition	1565lux
Development Time	10 Min.	Testing Temperature	25°C
Testing Standard	ISO 3452-1:2021	Acceptance Criteria	Describe the actual findings
<b>Conclusion:</b> PT has been performed to 1 piece of Tungsten Threaded Rod J2H 231WX434001 based on the requirement of the client and testing standard ISO 3452-1, and no defect has been found during this testing.			

No.	Sample No.	Indication No.	Indication Type	Indication Size (mm)	Result	Remark
1.	SNT23081725	---	---	---	---	

Note:

Acc. — Acceptable	Rej. — Rejected
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Note: \* test project/method was carried out by subcontractors.



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 12 of 14

Attached Photos:



Fig. 1: SNT23081725 before PT



Fig. 2: SNT23081725 after PT

Photos:



Sample 001



Sample 002



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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 13 of 14



Sample 003



Sample 004-1



Sample 004-2



Sample 004-3



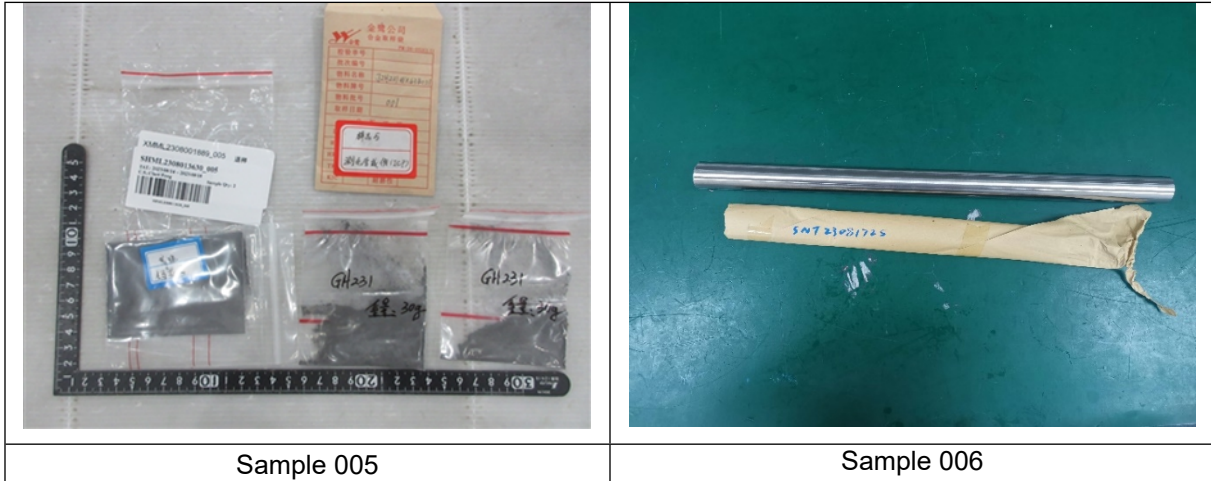
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## TEST REPORT

No. : XMIN2308001889ML01\_EN

Date : 2023-09-12

Page: 14 of 14



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