

## TEST REPORT

No. : XMIN2412003347ML01\_EN

Date : 2025-01-02

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CUSTOMER NAME: XIAMEN GREAT SOLAR ENERGY CO.,LTD  
ADDRESS: RM812, NO. 466, XINGLIN STR., JIMEI DIST., XIAMEN 361000,  
FUJIAN,CHINA.

Sample Name : Rail  
Material and Mark : AL6005-T5

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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Date of Receipt : 2024-12-23  
Testing Period : 2024-12-23 ~ 2025-01-02  
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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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### 1. Chemical Composition Analysis

Element	Test Method	Req.(%)	Result 001 (%)	Con.
Si	GB/T 7999-2015	0.6~0.9	0.67	Pass
Fe	GB/T 7999-2015	≤0.35	0.13	Pass
Cu	GB/T 7999-2015	≤0.10	≤0.001	Pass
Mn	GB/T 7999-2015	≤0.10	0.005	Pass
Mg	GB/T 7999-2015	0.40~0.6	0.59	Pass
Cr	GB/T 7999-2015	≤0.10	≤0.001	Pass
Zn	GB/T 7999-2015	≤0.10	0.003	Pass
Ti	GB/T 7999-2015	≤0.10	0.01	Pass
Al	GB/T 7999-2015	Remainder	Remainder	---

Note: The requirement was extracted from type 6005 in GB/T 3190-2020.

### 2. Tensile Test

Test Method: GB/T 228.1-2021

Test item	Specimen type	Tensile strength ( $R_m$ ) (MPa)	Proof strength ( $R_{P0.2}$ ) (MPa)	Elongation after fracture( $A_{50mm}$ ) $L_0=50mm$ (%)	Con.
Req.	-	≥260	≥240	≥8	-
001	Rectangular specimen $b_0=12.5mm$	274	242	12.5	Pass

Note: The requirement was extracted from type 6005-T5 ( $t \leq 6.3mm$ ) in GB/T 5237.1-2017.



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Sample Photo

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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