

## TEST REPORT

No. : TJIN2502000700ML01\_EN

Date : 2025-03-05

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CUSTOMER NAME: WAD ALFAKY IMPORT & EXPORT CO.,LTD  
ADDRESS: FREEDOM STREET, SUDAN OLD IMDUS AREA , KHARTOUM, SUDAN

Sample Name : REBAR  
Product Specification : 16MM (diameter)  
Manufacturer : Guangdong Steel Bull Iron Co.,Ltd  
Buyer : WAD ALFAKY IMPORT & EXPORT CO.,LTD  
Material and Mark : HRB400E

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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SGS Ref. No. : TJINSCS2500255  
Date of Receipt : 2025-02-27  
Testing Period : 2025-02-27 ~ 2025-03-05  
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 (Tianjin) Co., Ltd..

Holly Xu

Holly Xu  
Authorized signatory



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### 1. Chemical Composition Analysis

Test Method: OES

Element	C	Si	Mn	P	S	Con.
Req, %	≤0.25	≤0.80	≤1.60	≤0.045	≤0.045	---
Result, %	0.25	0.32	1.12	0.019	0.025	Pass

Note: The results of test elements specified by client comply with the requirement of GB/T 1499.2-2018 Type (HRB400E).

### 2. Tensile Test

Test Method: GB/T 28900-2022

Test item	Tensile strength (MPa)	Yield strength (MPa)	$R^o_m / R^o_{eL}$	$R^o_{eL} / R_{eL}$	Total elongation at maximum force, (Agt) %	Con.
Req.	≥540	≥400	≥1.25	≤1.30	≥9.0	-----
Result-1	600	420	1.43	1.05	13.0	Pass

Note: The requirement is specified in GB/T 1499.2-2018 Type HRB400E.

### 3. Bend Test

Test Method: GB/T 28900-2022

Test item	Nominal diameter (d) (mm)	Mandrel diameter (D) (mm)	Bend angle (°)	Result	Conclusion
Result-1	φ 16	4d	180	No crack	Pass

Note: The results comply with the requirement of GB/T 1499.2-2018 Type HRB400E.



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Sample Photo

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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\*\*\*\*\*



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