

TEST REPORT

No. : TJIN2503001043ML01_EN

Date : 2025-03-26

Page: 1 of 3



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

Sample Name : REBAR
Product Specification : 1: 10MM (diameter),
2: 12MM (diameter),
3: 14MM (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.

SGS Ref. No. : TJINSCS2500364
Date of Receipt : 2025-03-18
Testing Period : 2025-03-18 ~ 2025-03-26
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..

Jalor Zhang
Authorized signatory



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Page: 2 of 3

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	---
1-Result, %	0.23	0.26	1.18	0.030	0.025	Pass
2-Result, %	0.25	0.24	1.16	0.026	0.025	Pass
3-Result, %	0.24	0.26	1.19	0.030	0.023	Pass

Note: The result 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	672	465	1.45	1.16	14.0	Pass
Result-2	667	458	1.46	1.15	14.5	Pass
Result-3	632	431	1.47	1.08	15.0	Pass

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



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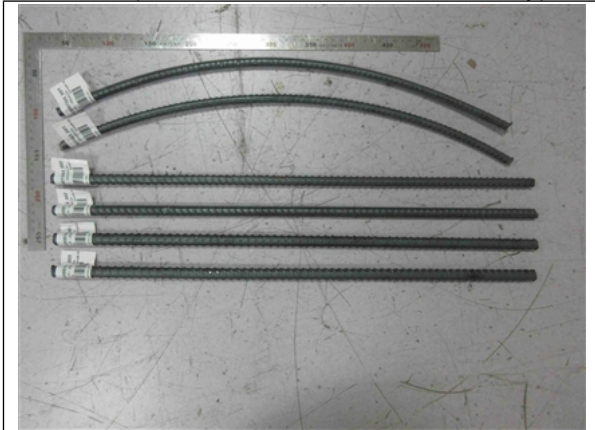
Page: 3 of 3

3. Bend Test

Test Method: GB/T 28900-2012

Test item	Nominal diameter (d) (mm)	Mandrel diameter (D) (mm)	Bend angle (°)	Result	Conclusion
Result-1	φ 10	4d	180	No crack	Pass
Result-2	φ 12	4d	180	No crack	Pass
Result-3	φ 14	4d	180	No crack	Pass

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



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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