



Marine & Offshore

Certificate number: 14114/D0 BV

File number: MAT 56339-2008

Product code: 2011I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

Heng Yang Valin Steel Tube Co. Ltd.

Hengyang - CHINA

for the type of product

SEAMLESS PIPES AND FITTINGS

Seamless pipes in carbon-manganese steel grade 410HB

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

仅限产品宣传用途
 FOR information only

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 12 Nov 2023

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 12 Nov 2018,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Seamless pipes in carbon-manganese steel.

| Steel grade | Dimensions | Delivery conditions |
|-------------|---|------------------------------------|
| 410HB | Outside diameter range 17mm to 76mm Wall thickness range 1.5mm to 13.5mm | Cold drawn finished and Normalised |
| | Outside diameter range 42mm to 609mm Wall thickness range 3.5mm to 50mm | Hot rolling finished |

No steelmaking.

2. DOCUMENTS AND DRAWINGS :

As per documents issued by Heng Yang Valin Steel Tube Co., Ltd.:

- "Approval test programme and reports" dated April 2004.
- "Apply for BV works approval for the manufacture of steel tubes - Approval test programme and reports" dated March 2008.
- "Seamless Steel Ship-building Tube manufacturers for BV- Application Document" dated December 2010.

3. TEST REPORTS :

As per documents issued by Heng Yang Valin Steel Tube Co., Ltd.:

- "Approval test programme and reports" dated April 2004.
- "Micrographs and sulphur prints analysis" dated June 2004.
- "Apply for BV works approval for the manufacture of steel tubes - Approval test programme and reports" dated March 2008.
- Sulphur prints photos and micrograph analysis dated 13 March 2008.
- "BV Approved testing summary" dated January 2011.
- Test reports: chemistry test, mechanical properties test, microscope observation, sulfur prints dated January 2011.
- Eddy current and Ultrasonic tests dated March 2011.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Products used for the manufacture of the pipes such as round billets are to be with manufacturer's certificate as a minimum.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The seamless pipes are to be supplied by Heng Yang Valin Steel Tube Co., Ltd. in compliance with the type and the requirements described in this certificate.
- 5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
- 5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.14114/A0 BV to No.14114/C0 BV.

*** END OF CERTIFICATE ***