



Marine & Offshore
Division

Certificate number: 39647/A0 BV

File number: MAT 57514-2014

Product code: 8160I

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

Amsteel Castings Pvt Ltd.

Hosur - INDIA

for the type of product

SPECIAL ALLOY CASTINGS

Nickel alloy castings with maximum weight 500Kg.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS 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: 08 May 2020

For BUREAU VERITAS,

At BV MUMBAI (BOMBAY), on 08 May 2015,

Shailendra NATH

Shailendra Nath



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. 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 Division 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 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.

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BV Mod. Ad.E 1533 October 2014

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Nickel alloy castings of maximum weight 500kg.

Steelmaking by induction furnace.
Sand casting, heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

- Visual examination procedure N° DP40 Rev.A issued by Amsteel Castings Pvt. Ltd. and dated 15 March 2004.
- Calibration equipments procedure N° DP29 Rev.I issued by Amsteel Castings Pvt. Ltd. and dated 02 April 2004.
- NDT procedures N° DP21 Rev.F; N° DP22 Rev.F; N° DP23 Rev.E and N° DP24 Rev.F issued by Amsteel Castings Pvt. Ltd. and dated 01 December 2010.
- Heat treatment procedure N° DP16 Rev.F issued by Amsteel Castings Pvt. Ltd. and dated 01 January 2013.
- List of NDT operators and their qualifications issued by Amsteel Castings Pvt. Ltd. and dated January 2015.
- General information of the manufacturer : profile, type of products, manufacturing facilities, manufacturing process and quality control issued by Amsteel Castings Pvt. Ltd. and dated 2015.

3. TEST REPORTS :

Typical tested grades are:

- CU5MCuC and CW2M according to ASTM A494 for Nickel alloys.
- Test report of casting grade CU5MCuC, Heat 17732, pouring date 30 July 2014, issued by Amsteel Castings Pvt. Ltd.
- Test report of casting grade CW2M, Heat 17522, pouring date 14 June 2014, issued by Amsteel Castings Pvt. Ltd.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification

5. PRODUCTION SURVEY REQUIREMENTS :

The steel castings are to be supplied by Amsteel Steel Castings Pvt. Ltd. in compliance with the type and the requirements described in this certificate.

This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***