



Marine & Offshore

Certificate number: 23080/C0 BV

File number: MAT 80735-2010

Product code: 8154I

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

INTOLCAST PRIVATE LIMITED
RAJKOT - INDIA

for the type of product

STEEL CASTINGS

Carbon steel, Austenitic Stainless Steel and Duplex Stainless Steel Investment Castings of maximum weight 94 kg.

Requirements:

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

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: 14 Jan 2026

For Bureau Veritas Marine & Offshore,

At BV MUMBAI (BOMBAY), on 14 Jan 2021,

Rajan VARDHAN



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 :

Carbon steel, austenitic stainless steel and duplex stainless steel castings of maximum weight 94kg.

Steelmaking by induction furnace.
Machined / unmachined investment casting by wax process.

2. DOCUMENTS AND DRAWINGS :

- 2.1 As per following documents issued by Intolcast Private Limited:
- "Process module - Production process - Amendment N°2" dated 01 December 2012.
 - "Product Identification and traceability" dated 01 April 2009.
 - "Receiving inspection quality plan - Amendment N°03" dated 01 February 2014.
 - "Generic inprocess quality plan - Amendment N°01" dated 01 July 2011.
 - "Heat treatment of different alloy - Amendment N° 09" dated 28 February 2014.
 - "List of trained operator and inspector in LPT and MPI, RT" dated 14 April 2015.
 - Generic and specific documents , submitted October 2020.
 - Heat treatment procedures and description of furnaces, submitted December 2020.

3. TEST REPORTS :

- 3.1 Typical tested grades are :
- WCB according to ASTM A216 and 1.0619 according to EN10213 for Carbon steels
 - CF3M, CF8M according to ASTM A351/A351M for austenitic stainless steels.
 - Gr. 6A according to ASTM A995 for duplex stainless steel.
- 3.2 As per following documents issued by Intolcast Private Limited:
- "Heat wise pouring report (daily)" dated 11 May 2010.
 - "Tensile test results" dated 08 May 2010.
 - Process approval duplex stainless steel GR. 6A. dated 17 September 2020.
 - Casting drawing, test bar drawing submitted December 2020.
 - NDT reports, visual inspection report and list of NDT personnel, submitted December 2020.
 - Inspection certificates No. 00184BBY19 dated 29 February 2019 and No. 00113BBY20 dated 25 February 2020.

4. APPLICATION / LIMITATION :

Chemical composition, tensile properties and Charpy-V notch test requirements are to be as per Bureau Veritas Materials Rules for Classification and/or alternative specification mentioned on reviewed drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The steel castings are to be supplied by Intolcast Private Limited 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 Materials Rules for the Classification .

7. OTHERS :

This certificate replaces approvals from No. 23080/A0 BV to No.23080/B0 BV.

*** END OF CERTIFICATE ***