



Marine & Offshore

Certificate number: 71032/A0 BV

File number: MAT 135243-2022

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

SHREE HANS ALLOYS LIMITED
AHMEDABAD - INDIA

for the type of product

STEEL CASTINGS

Carbon steel, austenitic and austenitic-ferritic (Duplex and Super Duplex) stainless steel castings of maximum weight 1000Kg.

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: 17 Aug 2027

For Bureau Veritas Marine & Offshore,
At BV MUMBAI (BOMBAY), on 17 Aug 2022,
Nitinand NALAWADE

This certificate was created electronically and is valid without signature



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 austenitic-ferritic (Duplex and Super Duplex) stainless steel castings of maximum weight 1000Kg. Typical castings are valve castings, pumps.

Melting by induction furnace. Sand mould. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Shree Hans Alloys Limited:

- "Manufacturing process and company data" submitted on July 2022.
- Ref.SHAL/WI/POU/08/WI dated 01/03/2016.
- Ref.SHAL/MT-PROCE/2020/07; Ref.SHAL/PT-PROCE/2020/03; Ref.SHAL/RT-PROCE/2020/04;
- Ref.SHAL/UT-PROCE/2020/01 dated 14/09/2020.

3. TEST REPORTS :

3.1 - Typical tested grades are:

- WCB according to ASTM A216/A216M for carbon steel castings.
- CF8M according to ASTM A351/A351M for austenitic stainless steel castings.
- Grade 4A as per ASTM A995 for austenitic-ferritic (duplex) stainless steel.
- Grade 6A as per ASTM A995 for austenitic-ferritic (superduplex) stainless steel.

3.2 - Documents issued by Shree Hans Alloys Limited:

- Reports issued for casting made from carbon steel grade WCB- heat No.B9083 dated 11/03/2022.
- Reports issued for casting made from austenitic stainless steel grade CF8M- heat No.A1776 dated 11/03/2022.
- Reports issued for casting made from austenitic-ferritic (duplex) stainless steel grade 4A- heat No.B9019 dated 11/03/2022.
- Reports issued for casting made from austenitic-ferritic (superduplex) stainless steel grade 6A- heat No.B9082 dated 11/03/2022.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Chemical composition, tensile properties and Charpy-V notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed documents and drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel castings are to be supplied by Shree Hans Alloys 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 Rules for Classification.

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***