



Marine & Offshore

Certificate number: 77304/A0 BV

File number: MAT 136229-2024

Product code: 8157I

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

MAGNA ELECTRO CASTINGS LTD.

Coimbatore - INDIA

for the type of product

IRON CASTINGS

Grey lamellar graphite cast iron and Spheroidal, Nodular graphite cast iron.

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: 18 Apr 2030

For Bureau Veritas Marine & Offshore,

At BV MUMBAI (BOMBAY), on 18 Apr 2025,

Nitin 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 :

Grey lamellar graphite cast iron with a maximum weight 12,5kg.
Nodular or Spheroidal graphite cast iron with maximum weight 180kg.

Melting scraps by Induction furnace. Sand casting. Castings are delivered As Cast or Heat treated as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Magna Electro Castings Ltd.:
- Magna preliminary information dated 07 November 2024.
- Magna Manufacturing Process dated 07 November 2024.
- NDT procedures Ref. No. IMSD-QAT-FQ-07 Rev.08, Ref. No. IMSD-QAT-FQ-06 Rev.08, Ref. No. IMSD-QAT-FQ-08 Rev.08, Ref. No. IMSD-QAT-FQ-14 Rev.03, Ref. No. IMSD-QAT-FQ-05 Rev.10 dated 01/07/2024 and personnel qualification certificates.

3. TEST REPORTS :

3.1 - Typical grades tested are:
GJL-200; GJL-250; according to standard EN 1561 for grey lamellar graphite cast iron.
GJS-500-7; EN GJS-700-2; GJS-400-18-LT; GJS-450-10; GJS-400-15 according to standard EN 1563; GJS-SiMo40-6 according to standard EN 16124 for nodular or spheroidal graphite cast iron.
3.2 - Reports issued by Magna Electro Castings Ltd. :
- Test reports dated 22 April 2024 and supporting documents.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules for Classification.
4.2 - Tensile properties and Charpy V-notch test requirements are to be as per Bureau Veritas Materials Rules and/or alternative specification mentioned on reviewed documents and drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The iron castings are to be supplied by Magna Electro Castings 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.
5.4 - For information, Magna Electro Castings Ltd. has declared to Bureau Veritas the following production site:

Magna Electro Castings Ltd.
SF 34 & 35. Coimbatore Main Road
Tamaraikulam Post
Kinathukadavu
642109 Coimbatore
INDIA

6. MARKING OF PRODUCT :

6.1 - Each iron casting that has been tested with satisfactory results are to be marked with the following information:
- Manufacturer's name or trademark
- Bureau Veritas' brand
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references
Additional marking requirements specific to iron castings shall be in accordance with the "Marking" article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

7. OTHERS :

7.1 - It is Magna Electro Castings Ltd.'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***