Marine & Offshore

**Certificate number:** 74978/A0 BV
**File number:** ACM100/377/1
**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*

## FONDERIA SA.BI. S.P.A.

Roveredo in Piano - ITALY

*for the type of product*

## IRON CASTINGS

Grey cast iron castings for pressure retaining parts used for ambient temperature applications

**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: 26 Jun 2030**

**For Bureau Veritas Marine & Offshore,**
At BV NAPOLI, on 26 Jun 2025,
Sandro BRUSEGAN

***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 cast iron castings for pressure retaining parts used for ambient temperature applications. Castings have a maximum weight of 50 Kg.
Melting scraps by induction furnace. Sand casting. Castings are delivered As Cast.

**2. DOCUMENTS AND DRAWINGS :**

2.1 - Documents issued by Fonderia SA.BI. S.p.A.:
- Document SABI Group spa Approval Plan BV - Cert. n.1616590370 Rev.2 dated 17/04/2025.

2.2-Chemical composition (wt%) on ladle for grey cast iron grade EN-GJL-250:

| C | Si | Mn | P | S | Cr | Ni | Mo | Cu | Sn |
|---|---|---|---|---|---|---|---|---|---|
| 3.30 max.<br>3.22 min. | 2.00 max.<br>1.90 min. | 0.90 max.<br>0.75 min. | 0.06 max.<br>- | 0.040 max.<br>- | 0.035 max.<br>0.010 min. | 0.060 max.<br>0.040 min. | 0.010 max.<br>- | 0.060 max.<br>0.030 min. | 0.010 max.<br>- |

**3. TEST REPORTS :**

3.1 - Typical grade tested is:
- EN-GJL-250 according to EN 1563 for grey cast iron.

3.2 - Documents issued by Fonderia SA.BI. S.p.A.:
- Document SABI Group spa Approval Plan BV - Cert. n.1616590370 Rev.2 dated 17/04/2025, and manufacturing records rev.0 dated 13.06.2025.

**4. APPLICATION / LIMITATION :**

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
4.2 - As far as Classification is concerned, the grey cast iron EN-GJL-250 is approved for applications at ambient temperature. This excludes applications involving the storage and handling of liquefied gases, as covered by the IGC Code and IGF Code.
4.3 - Suitability of grey cast iron EN-GJL-250 for use in storage and handling equipment to be used with gases subject to special requirements listed in column "i" of the table of the IGC Code, chapter 19 of IGC is not covered by this approval. In particular, approval for use for anhydrous ammonia and carbon dioxide applications is not covered by this certificate.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The grey cast iron EN-GJL-250 castings are to be supplied by Fonderia SA.BI. S.p.A.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, Fonderia SA.BI. S.p.A. has declared to Bureau Veritas the following production site:

**Fonderia SA.BI. S.p.A.**
Via Brentella, 38
33080 Roveredo in Piano
ITALY

**6. MARKING OF PRODUCT :**

6.1 - Each grey 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 grey iron casting 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 Fonderia SA.BI. S.p.A.'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 *****