



Marine & Offshore

Certificate number: 21076/C0 BV

File number: MAT 22182-2008

Product code: 8153I

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

FRANCHINI ACCIAI SPA
Mairano (BS) - ITALY

for the type of product

STEEL FORGINGS

Alloy and stainless steel forgings of maximum weight 35 tons.
Carbon, carbon-manganese steel forgings of maximum weight 80 tons.

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 is a renewal of certificate N° 21076/B1 BV expiring on 06/11/2018

This certificate will expire on: 06 Nov 2023

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 19 Oct 2018,

Sandro BRUSEGAN



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 :

Alloy and stainless steel forgings of maximum weight 35 tons.
Carbon, carbon-manganese steel forgings of maximum weight 80 tons.

No steelmaking. Open die Forgings are heat treated as applicable.

2. DOCUMENTS AND DRAWINGS :

- "Approval of the manufacturing process of metallic materials" issued by Franchini Acciai S.p.A. dated 24/09/2008,
- "Franchini Acciai company overview for approval test program for Bureau Veritas 0943 GEN 2015" dated 21/12/2015,
- "Approval of manufacturing process of metallic materials for Bureau Veritas 0943 GEN 2015" dated 21/12/2015.

3. TEST REPORTS :

Typical grades tested are:

- 42CrMo4 according to EN10083-1 for alloy steels
- X22CrMoV12-1 according to SEW555 for stainless steels
- C45 according to DIN17200 for carbon steels
- S355 according to EN10250 and St 52-3 according to DIN 17100 for carbon-manganese steels

As per following inspection certificates issued by Franchini Acciai S.p.A.: N°16.847/2008, N°16.867/2008, N°16.861/2008 dated 11/09/2008; N°16.839/2008 dated 03/09/2008, Tests No.5/1934 dated 20/11/2015, 21/12/2015 and 22/12/2015.

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 forgings are to be supplied by Franchini Acciai 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.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification

7. OTHERS :

This certificate replaces approvals from No.201706/A0 BV to No.20176/B1 BV.

*** END OF CERTIFICATE ***