



Marine & Offshore
Division

Certificate number: 22568/B0 BV

File number: MAT 24303-2009

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

ACCIAIERIE VALBRUNA S.p.A
VICENZA - ITALY

for the type of product

STEEL FORGINGS

Stainless steel forged bars with maximum thickness 250mm

Requirements:

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

This certificate is issued to attest that BUREAU VERITAS 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: 02 May 2020

For BUREAU VERITAS,

At BV VENEZIA, on 02 May 2015,

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. 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 Division 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 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 :

Rough machined bars in stainless steels with maximum thickness 250mm

Steelmaking in Electric Arc Furnace and AOD refining.

Ingot casting or Continous cast billets.

Open die hot forging.

2. DOCUMENTS AND DRAWINGS :

- "ACC Valbruna - Factory presentation" issued by Acciaierie Valbruna Spa and dated November 2009.
- "Quality management system manual - Doc N° GQ SGQ 000 Rev.6" issued by Acciaierie Valbruna Spa and dated 12 January 2009.
- "List of manufacturing equipments" issued by Acciaierie Valbruna Spa and dated November 2009.
- "List of laboratory equipments" issued by Acciaierie Valbruna Spa and dated November 2009.
- "List of NDT operators" issued by Acciaierie Acciaierie Valbruna Spa and dated November 2009.
- "List of furnaces" issued by Acciaierie Valbruna Spa and dated November 2009.

3. TEST REPORTS :

Typical tested stainless steels are :

- X164M/1.4418 according to EN10088-3 for martensitic stainless steel.
- S17400.H1150 according to ASTM A564 for precipitation hardened steel.
- S31600/03A according to ASTM A276 and S31603 according to ASTM A479 for austenitic stainless steel.
- S31803A according to ASTM A276 for duplex stainless steel.

- Inspection report certificate N° MEST751812/2009 issued by Acciaierie Valbruna Spa and dated 22 May 2009.
- Inspection report certificate N° MEST770056/2009 issued by Acciaierie Valbruna Spa and dated 16 July 2009.
- Inspection report certificate N° MEST770683/2009 issued by Acciaierie Valbruna Spa and dated 17 July 2009.
- Inspection report certificate N° MEST778557/2009 issued by Acciaierie Valbruna Spa and dated 02 September 2009.
- Inspection report certificate N° MEST788677/2009 issued by Acciaierie Valbruna Spa and dated 29 September 2009.
- Inspection report certificate N° MEST791193/2009 issued by Acciaierie Valbruna Spa and dated 06 October 2009.
- "Laboratorio tecnologico - Settore esami metallografici" issued by Acciaierie Valbruna Spa and dated 12 November 2009.

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 drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

The stainless steel bars are to be supplied by Acciaierie Valbruna S.p.A in compliance with the type and the requirements described in this certificate.

This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approval number 22568/A0 dated 12 January 2010.

*** END OF CERTIFICATE ***