



Marine & Offshore

Certificate number: 23125/C0 BV

File number: MAT 2533-2010

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

CELSA HUTA OSTROWIEC Sp. z o.o.
OSTROWIEC SW. - POLAND

for the type of product

STEEL FORGINGS

Carbon, carbon-manganese, low alloy and alloy steel forgings with maximum weight up to 70 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 will expire on: 01 Feb 2026

For Bureau Veritas Marine & Offshore,

At BV KATOWICE, on 01 Feb 2021,

Wojciech Lubojanski



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 :

Forgings for machinery, shafts and non-welded components in carbon, carbon-manganese, low-alloy and alloy steels of maximum 70 tons.

Steelmaking by Electric arc furnace, Ladle furnace, Vacuum degassing. Open die forgings are heat treated as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1-Documents issued by Celsa Huta Ostrowiec:

- "Celsa Group, Celsa Huta Ostrowiec and Forge division Presentations"; "Process organization of Forge Division".
- "Program of processes control and testing of products" dated 09 October 2009.
- "Quality plan" dated 01 October 2007.
- Documents submitted on 09 December 2020.

3. TEST REPORTS :

3.1-Test reports issued by Celsa Huta Ostrowiec for following forging material:

- 42CrMo4 dated 10 May 2010, C-Mn (FC600) dated 23 April 2010, C45 dated 23 April 2010, 34CrNiMo6 dated 23 April 2010, S34CrNi dated 23 April 2010.
- Additional KV test at -10°C for ICE CLASS C-Mn steel dated 1 April 2009.
- "Report for renewal type approval (mode II scheme) No.23125/C0 BV_MAT 2533 for Bureau Veritas" dated 12/10/2020.
- Report issued for forging grade 34CrNiMo6, inspection certificate Ref.0007-BV-KJ0-2020 dated 31/03/2020.
- Report issued for forging grade C-Mn, inspection certificate Ref.0001/LR/KMO/2015/C dated 22/01/2015.

3.2 -Typical grades tested are:

- C45 according to EN 10083-2 for carbon steel
- C-Mn according to material specification Ref.KT0.2.345, normalized tempered and stress relieved for carbon steel
- 42CrMo4 according to EN 10083-1 for alloy steel
- 34CrNiMo6 according to EN 10083-3, Normalized, quenched and tempered for alloy steel
- 34CrNiMo6 according to SEW550 for low alloy steel
- S34CrNi according to Man Diesel specification QC743078-7 for low alloy steel
- FC600 according to BV Rules for Materials NR216 for carbon-manganese including ice class notations.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules on Materials and Welding. Chemical composition, tensile properties, 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 :

- 5.1 - The steels forgings are to be supplied by Celsa Huta Ostrowiec Sp. z.o.o. 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 on Materials and Welding.

7. OTHERS :

This certificate replaces approvals No.23125/A0 BV, No.23125/B0 BV.

*** END OF CERTIFICATE ***