



Marine & Offshore

Certificate number: 59440/B0 BV

File number: MAT 81070-2019

Product code: 20111

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

Centravis Production Ukraine

Dnipropetrovsk Region - UKRAINE

for the type of product

SEAMLESS PIPES AND FITTINGS

Seamless pipes in austenitic stainless steel grades 304/304L, 316/316L, 321 and austenitic-ferritic stainless steel grade UNS S31803.

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: 24 Dec 2029

For Bureau Veritas Marine & Offshore,

At BV ODESSA, on 24 Dec 2024,

Yevgen KUZNETSOV

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 :

Seamless pipes in austenitic and austenitic-ferritic (duplex) stainless steels.

Steel grade	Maximum dimensions	Delivery condition
304/304L*	Outside diameter 48.3 mm / Wall thickness 6 mm	Solution treated
316/316L*	Outside diameter 48.3 mm / Wall thickness 6 mm	Solution treated
321*	Outside diameter 48.3 mm / Wall thickness 6 mm	Solution treated
UNS S31803**	Outside diameter 48.3 mm / Wall thickness 6 mm	Solution treated

*Steel grade according to BVRules and/or ASTM A213.

**Steel grade according to BVRules and/or ASTM A789.

No steelmaking. Pipes are manufactured from bars, by cold rolling and cold drawing processes.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documents issued by CentraVis Production Ukraine PrJSC:

- "Preliminary information for manufacturing process approval of seamless austenitic and austenitic-ferritic stainless steel tubes according to the Rules of Bureau Veritas" dated August 1st, 2019.
- "Specific information for manufacturing process approval of seamless austenitic and austenitic-ferritic stainless steel tubes according to the Rules of Bureau Veritas" dated October 17th, 2019.
- "Test plan for BV approval of seamless pipes in austenitic and austenitic-ferritic stainless steels" dated October 17th, 2019.
- "Procedure for automated electromagnetic inspection for seamless steel tubes" dated October 1st, 2019.
- "Procedure for automated full peripheral ultrasonic testing of seamless tubes" dated October 9th, 2019.
- "Procedure for heat treatment of tubes in the continuous roller-hearth gas furnace No 1" dated October 2nd, 2019.

3. TEST REPORTS :

3.1- As per following documents issued by CentraVis Production Ukraine PrJSC:

- Test reports for approval of "Lot #60885 - TP304/304L - 32x6", dated October 28th, 2019.
- Test reports for approval of "Lot #61989 - TP304/304L - 48.3x3.68", dated October 28th, 2019.
- Test reports for approval of "Lot #50248 - TP316/316L - 33.4x4.55", dated November 1st, 2019.
- Test reports for approval of "Lot #61476 - TP316/316L - 48.26x3.68", dated October 28th, 2019.
- Test reports for approval of "Lot #38633 - TP321/321H - 33.7x3.6", dated November 1st, 2019.
- Test reports for approval of "Lot #61490 - TP321/321H - 48.3x5", dated October 28th, 2019.
- Test reports for approval of "Lot #62895 - S31803 - 33.4x3.38", dated October 28th, 2019.
- Test reports for approval of "Lot #36849 - S31803 - 48.26x3.68", dated November 1st, 2019.
- Inspection certificate No 2016/1337-1 Rev 00 for supply of austenitic-ferritic steel grade S31803 - 60.3x5.54x6000.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for the Classification. Pipes hydro tested at 70bars.

Products used for the manufacture of pipes, such as round bars, are to be with the steelmaker's certificate as a minimum.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The seamless pipes are to be supplied by CentraVis Production Ukraine 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, CentraVis Production Ukraine has declared to Bureau Veritas the following production site:

CentraVis Production Ukraine
56 Trubnikov Avenue, Nikopol
53201 Dnipropetrovsk Region
UKRAINE

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approval No. 59440/A0 BV.

It is CentraVis Production Ukraine'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 *****