



Marine & Offshore

Certificate number: 59440/A0 BV

File number: MAT 59440-2019

Product code: 2011I

*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: 27 Nov 2024**

**For Bureau Veritas Marine & Offshore,**

At BV ODESSA, on 27 Nov 2019,

Yevgen KUZNETSOV



## 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 :

As per following documents issued by CentraVis Production Ukraine PJSC:

- "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 :

As per following documents issued by CentraVis Production Ukraine PJSC:

- 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 PJSC 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 :

Nil.

**\*\*\* END OF CERTIFICATE \*\*\***