



Marine & Offshore

Certificate number: 48342/A1 BV

File number: MAT 102550-2017

Product code: 20111

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

MAXIM TUBES COMPANY PVT. LTD.

GUJARAT - INDIA

for the type of product

SEAMLESS PIPES AND FITTINGS

Seamless pipes in austenitic and Duplex (austenitic-ferritic) stainless steels

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: 11 Feb 2022

For Bureau Veritas Marine & Offshore,

At BV MUMBAI (BOMBAY), on 16 Apr 2021,

Rajan VARDHAN



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 electronic version is available at: <http://www.veristarpm.com/veristamb/jsp/viewPublicPdfTypec.jsp?id=htvp6m7pnb>
BV Mod. Ad.E 1533 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1- Cold finished seamless pipes in austenitic and austenitic-ferritic stainless steels.

Steel grades	Maximum Dimensions	Delivery conditions
TP 304/304L ASTM A312	Outside diameter 323.90 mm Wall thickness 9.52 mm	Solution treated
TP 316/316L ASTM A312	Outside diameter 323.90 mm Wall thickness 9.52 mm	Solution treated
TP 321 ASTM A312	Outside diameter 323.90mm Wall thickness 9.52mm	Solution treated
TP 347 ASTM A312	Outside diameter 88.90mm Wall thickness 5.49mm	Solution treated
UNS S31803 ASTM A790	Outside diameter 48.30mm Wall thickness 10.00mm	Solution treated

Pipes made by cold drawing, rolling and straightening operations.

1.2 - Hot finished seamless pipes in austenitic and austenitic-ferritic stainless steels:

Steel grades	Maximum Dimensions	Delivery conditions
TP 304/304L ASTM A312	Outside diameter 139 mm Wall thickness 20.5mm	Solution treated
TP 316/316L ASTM A312	Outside diameter 139 mm Wall thickness 20.5mm	Solution treated
TP 321 ASTM A312	Outside diameter 139 mm Wall thickness 20.5mm	Solution treated
UNS S31803 ASTM A790	Outside diameter 25,4mm Wall thickness 7,12mm	Solution treated

Pipes made by heating and hot piercing round bar, cold drawing and straightening operations.

2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documents issued by Maxim tubes company PVT., Ltd.:

- "Document for approval of manufacturer (stainless steel seamless pipes & tubes)" Ref.MTCPL/BVMO/001 dated 07/01/2017.
- Process flow chart dated 24/08/2020.
- Plant machinery Rev. 08 and plant pictures dated 05/06/2020.

3. TEST REPORTS :

3.1 - As per following test reports issued by Maxim tubes company PVT., Ltd.:

- Ref.Final/BVA/1, Ref.Hydro/BVA/2 dated 02/01/2017; Ref.ST-1401/1, Ref.Micro-1401-1, Ref.IGC-1, Ref.ST-1406/1, Ref.Micro-1406-1, Ref.ST-1404/1, Ref.Micro-1404-1, Ref.ST-1402-1, Ref.Micro-1402-1, Ref.ST-1407/1, Ref.Micro-1407-1, Ref.ST-1405/1, Ref.Micro-1405-1, Ref.ST-1408/1, Ref.Micro-1408-1, Ref.ST-1403/1, Ref.Micro-1403-1 dated 03/01/2017;
- Ref.MTCP/2015-2016/DSS-01, Ref.Final/duplex/1, Ref.Hydro/Duplex/1 dated 15/10/2015; Ref.MTCP/2013-14/0332A2, Ref.EXP-6104-5 dated 05/02/2014, Ref.EXP-6014-4 dated 27/01/2014, Ref.Micro-6104-2 dated 26/01/2014;
- Ref.MTCPL/2014-15/0024A3 dated 05/05/2014, Ref.Final/6218/4 dated 04/05/2014, Ref.Hydro/618/4 dated 03/05/2014.
- Test reports dated 19/02/2021.
- Raw material certificates and Solution furnaces reports submitted 26/03/2021.
- Rina Hot finished seamless pipe sample test report dated 10/03/2021.
- DNV Witnessed Inspection and testing reports dated 16/03/2021.

3.2 - As per following test reports issued by Metalab - Ahmedabad:

- Ref.ME/RA02/39, Ref.ME/RA02/40, Ref.ME/RA02/41, Ref.ME/RA02/42 , Ref.ME/RA02/43, Ref.ME/RA02/44, Ref.ME/RA02/45, Ref.ME/RA02/46 dated 03/01/2017.

3.3 - As per following test reports issued by Metallurgical laboratory - Ahmedabad:

- Ref.UM(FE)-2663, Ref.UM(FE)-2663, Ref.UT-2681, Ref.UH-2865, Ref.UF-2864, Ref.US-2860 dated 08/06/2015.

3.4 - As per following test reports issued by Divine metallurgical services PVT., Ltd. - Ahmedabad:

- Ref.I18552-1, Ref.I18552-2 dated 25/05/2015.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Stainless steel products used for the manufacture of the pipes are to be with works certificate.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The seamless pipes are to be supplied by Maxim tubes company PVT., Ltd. 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 approval N° 48342/A0 BV.

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