DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM000057** Revision No: **2**

This is to certify:

That

Tubacex Prakash India Pvt. Ltd. Umbergaon, GUJARAT, India

is an approved manufacturer of **Steel Pipes and Fittings**

in accordance with DNV GL rules for classification – Ships DNVGL-OS-B101 – Metallic materials

and the following particulars:

Manufacturing method

Max. outer diameter

Product Pipes
Application area Austenitic,

Ferritic-austenitic steel pipes

Steel type Austenitic stainless,

Ferritic-austenitic (Duplex) stainless,

See page 2 Seamless See page 2

Max. wall thickness See page 2
Heat treatment condition Solution heat treated

Additional approval conditions See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2019-10-11

for **DNV GL**

This Certificate is valid until **2022-09-30**.

DNV GL local station: Mumbai

Approval Engineer: Enno Brück

Thorsten Lohmann
Head of Section



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Job Id: **263.11-005202-3** Certificate No: **AMMM0000057**

Revision No: 2

Particulars of the approval

Austenitic and Ferritic-austenitic steel pipes

Steel type /grade ³⁾⁴⁾⁵⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic stainless	HFS CFS	273,1	9,27	SHT
22Cr duplex stainless 25Cr duplex stainless	HFS CFS	48,3	3,68	SHT

Remarks:

¹⁾ HFS: hot finished seamless

CFS: cold finished seamless

2) SHT: Solution Heat Treated (solution annealing)

3) Austenitic and ferritic-austenitic steel pipes

Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Part 4, ISO 9330 Part 6, EN 10216 Part 5, EN 10217 Part 7, ASTM A269, ASTM A312,

ASTM A358, ASTM A789, ASTM A790, ASTM A928 or JIS G3459

Pipes for low-temperature service Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Part 3, ISO 9330 Part 3, EN 10216 Part 4, EN 10217 Part 6, ASTM A333, ASTM A334 or JIS G3460

⁵⁾ Possible application and certification of any material to classed object is subject to case by case approval

Additional approval conditions:

- 1. Including low temperature service
- 2. Including automated Non-Destructive Testing in place of hydraulic testing according to relevant piping standard

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