

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM000029U**Revision No:

This is to certify:

That

SOSTA stainless pipes GmbH Windrose 1-2 06420 Könnern, Germany

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:

Product Pipes

Application area Austenitic and ferritic-austenitic steel pipes

Steel type Austenitic stainless,

Ferritic-austenitic (Duplex) stainless

Max. outer diameterSee page 2Max. wall thicknessSee page 2Heat treatment conditionSee page 2Additional approval conditionsSee 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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2021-05-17

for **DNV**

This Certificate is valid until 2024-06-30.

DNV local station: Magdeburg

Approval Engineer: Torben Schälicke

Thorsten Lohmann
Head of Section

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Job Id: **263.11-004668-3** Certificate No: **AMMM000029U**

Revision No: 1

Particulars of the approval

Austenitic and Ferritic-austenitic steel pipes

Steel type /grade ³⁾⁴⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic stainless	EFW	2000	24	SHT
22Cr duplex stainless	EFW	2000	24	SHT
25Cr duplex stainless	EFW	2000	24	SHT

Remarks:

- 1) EFW: electric fusion welded
- 2) SHT: Solution Heat Treated (solution annealing)
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- Suitable pipe grades shall be selected from the following recognised 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 and JIS G3459

Special conditions:

Including automatic eddy current and x-ray testing in lieu of hydraulic testing according to relevant standard

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