

# APPROVAL OF MANUFACTURER CERTIFICATE

**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**  
**DNV GL offshore standards**

and the following particulars:

<b>Product</b>	<b>Pipes</b>
<b>Application area</b>	<b>Austenitic and ferritic-austenitic steel pipes</b>
<b>Steel type</b>	<b>Austenitic stainless, Ferritic-austenitic (Duplex) stainless</b>
<b>Manufacturing method</b>	<b>Electric fusion welded</b>
<b>Max. outer diameter</b>	<b>See page 2</b>
<b>Max. wall thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</b>	<b>See page 2</b>

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 **2018-09-24**

for **DNV GL**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Torben Schälicke**

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**Thorsten Lohmann**  
**Head of Section**



Job Id: **263.11-004668-2**  
Certificate No: **AMMM000029U**

## Particulars of the approval

### Austenitic stainless

Steel type /grade <sup>3)4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery condition <sup>2)</sup>
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
- 4) 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