

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

CENTRAVIS PRODUCTION UKRAINE PJSC
56, Trubnikov Avenue, Nikopol, 53201,
Ukraine

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Product	Pipes
Application area	Austenitic and ferritic-austenitic steel pipes
Steel type	Austenitic stainless, Ferritic-austenitic (22Cr-Duplex) stainless, See page 2
Manufacturing method	Seamless, hot or cold finished
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
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 **2019-01-04**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Odessa**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-004742-2**
Certificate No: **AMMM00002DA**

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	HFS, CFS	219	24	SHT
22Cr-Duplex	HFS, CFS	114.3	8.56	SHT

Remarks:

- 1) HFS: hot finished seamless
CFS: cold finished seamless
- 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 or ultrasonic testing in lieu of hydraulic testing according to relevant standard.

Including austenitic stainless steel for approved low-temperature applications .