

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002HV
Revision No:
1

This is to certify:

That
Zhejiang Yongshang Special Material Co., Ltd.
Daoqiao Village, Miaogao Street, Suichang County,
Lishui City, Zhejiang Province,
China

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Product	Pipes
Application area	Austenitic and ferritic-austenitic steel pipes
Steel type	Austenitic stainless, Ferritic-austenitic (Duplex) stainless
Manufacturing method	Seamless cold formed
Max. outer diameter	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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-09-21**

This Certificate is valid until **2025-05-26**.

DNV local station: **Ningbo FIS**

Approval Engineer: **Christian Wildhagen**



for **DNV**

Digitally Signed By: **Roehr, Stefan**

Location: **DNV Hamburg, Germany**

Signing Date: **21.09.2022**, on behalf of

Thorsten Lohmann
Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Particulars of the approval

Austenitic and Ferritic-austenitic steel pipes

Steel type	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	CrNi	CFS	406.4	31.75	SHT
	CrNiMo				
Ferritic-austenitic	22Cr duplex	CFS	426.0	20.62	SHT
	25Cr duplex				

Remarks:

- 1) 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

Special conditions:

Including automatic non-destructive testing in lieu of hydraulic testing according to relevant standard
Including austenitic stainless steel for low-temperature applications