



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000339

This is to certify:

That

BE. TUBE SRL

**Via Cervese 6221, 47522 Cesena (FC),
Italy**

is an approved manufacturer of
Non-ferrous tubes

in accordance with

DNV rules for classification – Ships

DNV class programme – DNV-CP-0253 Non-ferrous tubes

and the following particulars:

Application area	Copper and copper alloy tubes Titanium tubes
Product	Plain tubes Bimetallic tubes
Alloy type	Copper-Nickel 90-10, Copper-Nickel 70-30 Copper Copper-Zinc 80-20 Titanium
Manufacturing method	Seamless and hydroforming
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2

Manufacturer approved by this certificate is 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 **2023-10-25**

for **DNV**

This Certificate is valid until **2026-10-24**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Shylate Mahachi**

Thorsten Lohmann
Head of Section

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Form code: AM 311

Revision: 2022-12

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Page 1 of 2

Particulars of the approval

Copper and copper alloy tubes

Designation	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
Copper-Nickel 90-10	C70600 acc. ASTM B111	CFS	36	2.5	Annealed
Copper-Nickel 70-30	C71500 acc. ASTM B111				
Copper	CuDHP				
Copper-Zinc	C68700 acc. ASTM B111				
Bimetallic tubes	C70600/SA179 acc. ASTM B111 ²⁾	CFS Hydroforming	25.4	3.66	Annealed

Titanium tubes

Designation	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
Titanium	Titanium grade 2 acc. ASTM B338-17	CFS	38	2.11	Annealed

Remarks:

- 1) CFS: cold finished seamless
- 2) Possible application and certification of any material to classed object is subject to case by case approval