

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00002AR** Revision No:

This is to certify:

That

Wieland Austria Ges.m.b.H. Fabrikstraße 4, 3300 Amstetten, Austria

is an approved manufacturer of Wrought Copper and Copper Alloys

in accordance with DNV GL rules for classification – Ships

and the following particulars:

Application area Copper and copper alloy tubes

Alloy type(s) Copper-Nickel 90-10 Copper-Nickel 70-30

Copper-Nickel 70-3 Seamless

Manufacturing methodSeamlessMax. outer diameterSee page 2Max. wall thicknessSee page 2Heat treatment conditionSee 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 2021-12-13

This Certificate is valid until 2024-12-31.

DNV local station: Augsburg

Approval Engineer: Christian Wildhagen

for **DNV** 

Thorsten Lohmann Head of Section

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Job Id: **263.11-004699-6** Certificate No: **AMMM00002AR** 

Revision No: 2

## Particulars of the approval

## Copper and copper alloy tubes

Alloy type	Manufacturing method 1)	Max. outer diameter [mm]	Max. wall thickness [mm]
Copper-Nickel 90-10	HFS / CFS	159	8
Copper-Nickel 70-30	HFS / CFS	159	8

## Remarks:

1) HFS: hot finished seamless CFS: cold finished seamless

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