



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000CY
Revision No:
2

This is to certify:

That
MGI GmbH
Olper Hütte 7, 57462 Olpe,
Germany

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
Product	Pipes
Alloy type	Al-Ni-Si Alpha brass, See page 2
Manufacturing method	Seamless
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	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 **2021-12-17**

This Certificate is valid until **2024-12-16**.

DNV local station: **Essen**

Approval Engineer: **Christian Wildhagen**

for **DNV**

Digitally Signed By: Roehr, Stefan

Location: DNV GL Hamburg, Germany

Signing Date: 17.12.2021, on behalf of



Thorsten Lohmann
Head of Section

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Form code: AM 311

Revision: 2021-03

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Particulars of the approval

Copper and copper alloy tubes

Designation	Grade ²⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
Al-Ni-Si Alpha brass	CuZn13Al1Ni1Si1 (CW700R) acc. EN 12449	CFS	52	5	Acc. standard

Remarks:

- 1) CFS: cold finished seamless
- 2) Incl. equivalent grades in acc. to other standards