

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

INOXYDA S.A.
4-8 rue Etienne Dolet,
76140 LE PETIT QUEVILLY CEDEX,
Franceis an approved manufacturer of
Copper Alloy Castingsin accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Castings for valves, fittings and general application Castings for propellers
Casting method	Sand casting
Alloy type	Ni-Al bronze (Cu3)
Max. weight	10 700 kg
Heat treatment condition	As cast
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 **2018-07-27**for **DNV GL**This Certificate is valid until **2021-06-30**.DNV GL local station: **Le Havre**Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

Job Id: **263.11-009125-1**
Certificate No: **AMMM000026D**

Particulars of the approval

Castings for valves, fittings and general application Castings for propellers

Alloy type ³⁾	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Ni-Al-bronze	VL Cu3	SC	10 700	AC

Remarks:

- 1) SC: Sand Casting
- 2) AC: As cast
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules