

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000011T
Revision No:
1

This is to certify:

That
lebronze alloys Germany GmbH
Birlenbacher Straße 1, 57078 Siegen,
Germany

is an approved manufacturer of
Copper Alloy Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Castings for valves, fittings and general application
Alloy type(s)	Cast copper alloys, see page 2
Max. weight	20 000 kg
Remarks	Including prematerial according EN 12165 and customer specification

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 **2017-12-21**

for **DNV GL**

This Certificate is valid until **2020-12-31**.

DNV GL local station: **Essen**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-004230-3**
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Particulars of the approval

Castings for valves, fittings and general application

Alloy type	Casting method ¹⁾	Max. weight [kg]	Delivery condition²⁾
Copper alloys according EN 1982 ³⁾	SC, IC	20 000	Acc. standard

Remarks:

- 1) SC: Sand Casting
IC: Investment Casting
- 2) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules
- 3) Possible application and certification of any material to classed object is subject to case by case approval



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