



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000206
Revision No:
2

This is to certify:

That

Vulkan Technologies Pvt. Limited
District Pune, Maharashtra, India

is an approved manufacturer of
Aluminium Alloy Castings

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0250 Aluminium alloy castings

and the following particulars:

Application area	Aluminium Casting Alloys
Alloys	See page 2
Manufacturing method	Sand casting, Permanent mold casting, see page 2
Max. weight	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 **2024-02-21**

This Certificate is valid until **2027-01-31**.

DNV local unit: **Mumbai NB & CMC**

Approval Engineer: **Dechun Lou**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature
Christian Wildhagen

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: AM 311

Revision: 2022-12

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Particulars of the approval

Aluminium Casting Alloys

Grade	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
EN AC-42000	SC	20	100	AC, T6
EN AC-42000	PM	20	100	AC, T6, T64
EN AC-42100	SC	20	100	T6
EN AC-42100	PM	20	100	T6, T64
EN AC-42200	SC	20	100	T6
EN AC-42200	PM	20	100	T6, T64
EN AC-43000	SC	20	100	AC, T6
EN AC-43000	PM	60	100	AC, T6, T64
EN AC-43100	SC	60	100	AC, T6
EN AC-43100	PM	60	100	AC, T6, T64
EN AC-43200	SC, PM	60	100	AC, T6
EN AC-43300	SC	60	100	T6
EN AC-43300	PM	60	100	T6, T64
EN AC-44000	SC, PM	50	30	AC
EN AC-44100	SC, PM	50	30	AC
EN AC-44200	SC, PM	50	30	AC
EN AC-44400	SC, PM	50	30	AC

Remarks:

- ¹⁾ SC: Sand casting
 PM: Permanent mould casting
- ²⁾ AC: As cast
 T6: Solution annealed and completely artificially aged
 T64: Solution annealed and not completely artificially aged under aged (PM)