



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000014
Revision No:
2

This is to certify:

That

Intricast Private Limited

**25/28 Galaxy Industrial Estate, 15 KM Rajkot Gondal Road, Village : Shapar; Rajkot -360024
India**

is an approved manufacturer of
Steel Castings

in accordance with
DNV rules for classification – Ships

and the following particulars:

| | |
|---------------------------------|---|
| Application area | Castings for hull structures and equipment Castings for machinery Castings for boilers, pressure vessels and piping systems Stainless steel castings |
| Steel type | Carbon and carbon-manganese, Austenitic stainless |
| Casting method | 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 **2022-04-05**

for **DNV**

This Certificate is valid until **2025-06-30**.

DNV local station: **Mumbai FiS**

Approval Engineer: **Andreas Koch**

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Thorsten Lohmann
Head of Section

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: 2021-03

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Particulars of the approval

Castings for hull structure and equipment

| Steel type | Grade ³⁾ | Casting method ¹⁾ | Max. weight [kg] | Max. wall thickness [mm] | Heat treatment condition ²⁾ |
|------------|--|------------------------------|------------------|--------------------------|--|
| C and C-Mn | NV C400UW, NV C440UW, NV C480UW, NV C520UW, NV C560UW, NV C600UW | SC/IC | 50 | 68 | N, NT, QT |

Castings for machinery

| Steel type | Grade ³⁾ | Casting method ¹⁾ | Max. weight [kg] | Max. wall thickness [mm] | Heat treatment condition ²⁾ |
|------------|--|------------------------------|------------------|--------------------------|--|
| C and C-Mn | NV C400U, NV C440U, NV C480U, NV C520U, NV C560U, NV C600U | SC/IC | 50 | 68 | N, NT, QT |

Castings for boilers, pressure vessels and piping systems

| Steel type | Grade ³⁾ | Casting method ¹⁾ | Max. weight [kg] | Max. wall thickness [mm] | Heat treatment condition ²⁾ |
|------------|---------------------|------------------------------|------------------|--------------------------|--|
| C and C-Mn | NV C450H, NV C490H | SC/IC | 50 | 68 | N, NT, QT |

Stainless steel castings

| Steel type / grade | Casting method ¹⁾ | Max. weight [kg] | Max. wall thickness [mm] | Heat treatment condition ²⁾ |
|----------------------|------------------------------|------------------|--------------------------|--|
| Austenitic stainless | SC/IC | 50 | 68 | SHT |

Remarks:

- ¹⁾ SC: Sand Casting; IC: Investment Casting
- ²⁾ SHT: Solution Heat Treated (Solution Annealing);
N: Normalized; QT: Quenched and tempered; NT: Normalized and tempered
- ³⁾ Incl. equivalent grades in acc. to other standards