



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001EB
Revision No:
2

This is to certify:

That

Friedrich Köster GmbH & Co. KG
25746 Heide, Friedrichswerk 1-7,
Germany

is an approved manufacturer of
Iron Castings

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0249 Iron castings

and the following particulars:

Iron type	Grey cast iron, Nodular cast iron
Casting method	Sand casting
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2023-06-02**

for **DNV**

This Certificate is valid until **2026-05-31**.

DNV local unit: **Hamburg**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Cast iron

Iron type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Grey	200	SC	6 600	80	AC
	250	SC	6 600	80	AC
	300	SC	6 600	80	AC
	350	SC	6 600	80	AC
	EN-GJL-200 acc. EN 1561	SC	6 600	80	AC
	EN-GJL-250 acc. EN 1561	SC	6 600	80	AC
	EN-GJL-300 acc. EN 1561	SC	6 600	80	AC
Nodular	NV NCI-1	SC	6 600	80	AC / F
	NV NCI-2	SC	6 600	80	AC / F
	NV NCI 370	SC	6 600	80	AC
	NV NCI 400	SC	6 600	80	AC
	NV NCI 500-7	SC	6 600	80	AC
	NV NCI 600-3	SC	6 600	80	AC
	EN-GJS-400-18L acc. EN 1563	SC	6 600	80	AC / F
	EN-GJS-400-18R acc. EN 1563	SC	6 600	80	AC / F
	EN-GJS-350-22 acc. EN 1563	SC	6 600	80	AC
	EN-GJS-400-18 acc. EN 1563	SC	6 600	80	AC
	EN-GJS-400-15 acc. EN 1563	SC	6 600	80	AC
	EN-GJS-450-10 acc. EN 1563	SC	6 600	80	AC
	EN-GJS-500-7 acc. EN 1563	SC	6 600	80	AC
	EN-GJS-600-3 acc. EN 1563	SC	6 600	80	AC

Remarks:

- 1) SC: Sand casting
- 2) AC: As cast
F: Ferritizing (see special condition)
- 3) Incl. equivalent grades in acc. to other standards

Special conditions:

Heat treatment to be conducted by DNV approved heat treatment workshop