

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001RD** Revision No:

This is to certify:

That

Schmiedeberger Gießerei GmbH Atenberger Str. 59a, 01744 Dippoldiswalde, Germany

is an approved manufacturer of **Iron Castings**

in accordance with

DNV rules for classification – Ships

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
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 2023-10-18

for DNV

This Certificate is valid until 2026-10-31.

DNV local unit: Essen

Approval Engineer: Andreas Koch

Thorsten Lohmann

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.



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Head of Section



Job Id: Certificate No:

263.11-007872-3 AMMM00001RD

Revision No:

Particulars of the approval

Cast iron

Iron type	Grade ³⁾	Casting method 1)	Max. weight [kg]	Heat treatment condition ²⁾
Grey	200	- sc	300	AC
	250			
	300			
	EN-GJL-200 acc. EN 1561			
	EN-GJL-250 acc. EN 1561			
	EN-GJL-300 acc. EN 1561			
Nodular	NV NCI-1	SC	300	AC or F
	NV NCI-2	SC	300	AC or F
	NV NCI 370	SC	300	AC
	NV NCI 400	SC	300	AC
	NV NCI 500-7	SC	300	AC
	NV NCI 600-3	SC	300	AC
	NV NCI 700	SC	300	AC
	NV NCI 800	SC	300	AC
	EN-GJS-400-18-LT acc. EN 1563	SC	300	AC or F
	EN-GJS-400-18-RT acc. EN 1563	SC	300	AC or F
	EN-GJS-400-18 acc. EN 1563	SC	300	AC
	EN-GJS-400-15 acc. EN 1563	SC	300	AC
	EN-GJS-450-10 acc. EN 1563	SC	300	AC
	EN-GJS-500-7 acc. EN 1563	SC	300	AC
	EN-GJS-600-3 acc. EN 1563	SC	300	AC
	EN-GJS-700-2 acc. EN 1563	SC	300	AC
	EN-GJS-800-2 acc. EN 1563	SC	300	AC
	EN-GJS-SiMo40-10 acc. EN 16124 (GJS-SiMo4.1 acc. specification KB01) 4)	SC	300	Acc. standard

Remarks:

- 1) SC: Sand Casting
 2) AC: As cast; F: Ferritizing
 3) Incl. equivalent grades in acc. to other standards
 4) Possible application and certification of any material to classed object is subject to case-by-case approval

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