

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00001NH Revision No: 3

This is to certify:

## That ACO Guss GmbH Am Gusswerk 8, 67663 Kaiserslautern, 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

Casting method Max. weight Max. wall thickness Heat treatment condition Grey cast iron, Nodular cast iron Sand casting, continuous casting See page 2 See page 2 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 2024-05-16

This Certificate is valid until **2026-09-30**. DNV local unit: **Augsburg** 

Approval Engineer: Andreas Koch



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.





Job Id: Certificate No: **Revision No:** 

263.11-003585-4 AMMM00001NH 3

## Particulars of the approval

## Cast Iron

Iron type	Grade	Casting method <sup>1)</sup>	Max. weight [kg] <sup>2)</sup>	Max. thickness [mm] <sup>3)</sup>	Dimensions <sup>4)</sup>	Heat treatment condition
Grey	EN-GJL-150 6)	- sc	200 kg	30 mm	Rectangular: 35mm x 35mm up to 350mm x 350mm Round (diameter): 28 mm up to 500 mm	As cast
	EN-GJL-200 <sup>6)</sup>					
	EN-GJL-250 <sup>6)</sup>					
	EN-GJL-300 <sup>6)</sup>					
	EN-GJL-150C 5)	сс				
	EN-GJL-250C 5)					
	EN-GJL-300C 5)					
Nodular	NV NCI-2 <sup>6)</sup>	SC				As cast / annealed
	NV NCI 370 <sup>6)</sup>					
	NV NCI 400 <sup>6)</sup>					
	NV NCI 500 6)					
	NV NCI 600 6)					
	NV NCI 700 6)					
	EN-GJS-350-22-LT					
	EN-GJS-400-18-LT					
	EN-GJS-400-18					
	EN-GJS-400-15					
	EN-GJS-450-10					
	EN-GJS-500-07					
	EN-GJS-600-3					
	EN-GJS-700-2					
	EN-GJS-350-22C-LT 5)	CC				
	EN-GJS-400-18C-LT 5)					
	EN-GJS-400-15C 5)					
	EN-GJS-500-7C 5)					
	EN-GJS-600-3C 5)					
	EN-GJS-700-2C 5)					

Remarks:

SC: Sand casting; CC Continuous casting Max. weight for sand casting only Max. thickness for sand casting only 1)

2)

3)

4) Dimensions for continuous casting only

According to customer specification WN 0-200.003 and EN 16482-2014; Application subject to special approval Including equivalent grades to other standards 5)

6)