DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001NH** Revision No:

1

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 GL rules for classification - Ships

and the following particulars:

Iron type Grey cast iron, Nodular cast iron

Casting method Sand casting, continuous casting

Max. weightSee page 2Max. wall thicknessSee page 2Heat treatment conditionAs cast

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2020-09-03

for **DNV GL**

This Certificate is valid until **2023-09-30**.

DNV GL local station: Augsburg

Approval Engineer: Stefan Röhr

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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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263.11-003585-3 Certificate No: AMMM00001NH

Revision No:

Particulars of the approval

Cast Iron

Iron type	Grade	Casting method 1)	Max. weight [kg] ²⁾	Max. thickness [mm] ³⁾	Dimensions 4)	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 ⁶⁾					
	EN-GJL-250 6)					
	EN-GJL-300 ⁶⁾					
	EN-GJL-150C ⁵⁾	CC SC SC				
	EN-GJL-250C ⁵⁾					
	EN-GJL-300C ⁵⁾					
Nodular	VL NCI-2 ⁶⁾					
	VL NCI 370 ⁶⁾					
	VL NCI 400 6)	SC				
	VL NCI 500 6)	SC S				
	VL NCI 600 6)					
	VL 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	SC				
	EN-GJS-700-2	SC				
	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:

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

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