

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:

AMMM000004U

Revision No:

This is to certify:

that

S.A.F.A.S. Societa Azionaria Fonderia Acciai Speciali S.p.A.

Via Verona 23, 36077 Tavernelle, Altavilla Vicentina VI, Italy

is an approved manufacturer of Steel Castings

in accordance with

DNV rules for classification – Ships DNV-OS-B101 – Metallic materials DNV class programme – DNV-CP-0246 Steel castings

and the following particulars:

> Castings for machinery Stainless steel castings

Steel type Carbon and carbon-manganese,

Austenitic stainless,

See page 2

Casting method Sand casting
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 2025-07-08

This Certificate is valid until **2028-06-30**. DNV local unit: **Italy/Malta CMC**

Approval Engineer: Christian Wildhagen



for **DNV**

This document has been digitally signed and will therefore not have handwritten signature

Stefan Röhr

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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 USD 300 000.



Job ID: **263.11-005046-4** Certificate no.: **AMMM000004U**

Revision No: 3

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	NV C400UW, NV C440UW,	sc	9 000	400	N, NT, QT
C-Mn	NV C480UW	30	9 000	400	IV, IVI, QI

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	sc	9 000	400	N, NT, QT

Stainless steel castings

Steel type	Grade 3)	Casting method 1)	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	GX 2 CrNi 18 10 (304L) GX 5 CrNi 19 9 (304) GX 6 CrNiNb 19 10 (347) GX 2 CrNiMo 19 11 2 (316L) GX 5 CrNiMo 19 11 2 (316) GX 5 CrNiMo 19 11 3 (317)	SC	9 000	400	SHT

Remarks:

1) SC: Sand Casting

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

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