



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000005E**  
Revision No:  
**3**

This is to certify:

That

**AMPO S.C.**  
**Idiazabal, Guipuzcoa,**  
**Spain**

is an approved manufacturer of  
**Steel Castings**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0246 Steel castings**

and the following particulars:

<b>Application area</b>	<b>Castings for machinery</b> <b>Castings for steel castings for low temperature service</b> <b>Stainless Steel Castings</b>
<b>Steel type(s)</b>	<b>Carbon and carbon-manganese</b> <b>Austenitic stainless</b> <b>Austenitic-ferritic (Duplex) stainless</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2023-12-08**

for **DNV**

This Certificate is valid until **2026-12-31**.

DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Andreas Koch**

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**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 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.



Form code: AM 311

Revision: 2022-12

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## Particulars of the approval

### Castings for hull structure and equipment

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
C and C-Mn	NV C400UW, NV C440UW, NV C480UW, NV C520UW	SC	5 000	N

### Castings for machinery

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
C and C-Mn	NV C400U, NV C440U, NV C480U, NV C520U	SC	5 000	N

### Stainless steel castings

Steel type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
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	5 000	SHT
Duplex	GX 2 CrNiMoN 22 5 3 (22Cr)			

### Steel castings acc. other standards

Steel type	Grade	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
Steel acc. to EN 10293				
C and C-Mn	GE200, GE240, GE300	3 000	100	N
Steel acc. to ASTM A351				
Austenitic	CF3M, CF8M	SC	5 000	SHT

### Remarks:

- 1) SC: Sand Casting
- 2) SHT: Solution Heat Treated (Solution Annealing)  
N: Normalized
- 3) Incl. equivalent grades in acc. to other standards