



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000004B
Revision No:
2

This is to certify:

That
Sümer Celik Döküm Sanayi ve Ticaret A.S.
Cumhuriyet Mah. Karakaya Sok. No. 11,
Yazıbaşı - Torbalı 35860 / Izmir,
Turkey

is an approved manufacturer of
Steel Castings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Application area	Castings for hull structures and equipment Castings for machinery Stainless steel castings
Steel type	Carbon and carbon-manganese, Alloy, Martensitic stainless
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 **2022-08-19**

for **DNV**

This Certificate is valid until **2025-06-30**.

DNV local station: **Istanbul**

Approval Engineer: **Andreas Koch**

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Thorsten Lohmann
Head of Section

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Form code: AM 311

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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 C-Mn	NVC400UW, NVC440UW, NVC480UW, NVC520UW, NVC560UW, NVC600UW	SC	6 000	350	N, NT, QT
Alloy	NVC550AW, NVC620AW	SC	6 000	350	QT

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	NVC400U, NVC440U, NVC480U, NVC520U, NVC560U, NVC600U	SC	6 000	350	N, NT, QT
Alloy	NVC550A, NVC600A, NVC690A	SC	6 000	350	QT

Stainless steel castings

Steel type	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Martensitic	SC	500	350	QT

Steel castings acc. other standards

Steel type	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Steel acc. to EN 10340				
1.6759 ³⁾	SC	6 000	350	QT

Remarks:

- ¹⁾ SC: Sand Casting
- ²⁾ N: Normalized
 QT: Quenched and tempered
 NT: Normalized and tempered
- ³⁾ Incl. equivalent grades in acc. to other standards