

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

ASIL CELIK SAN. ve TIC. A.S.
Gemic Koyu Mevkii,
16800 Orhangazi / Bursa,
Turkey

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Product	Round bars for chain cable, Semi-finished products for rolling or forging stock
Grade(s)	See page 2
Manufacturing method	Electric Arc furnace, Continuous / ingot casting
Max. thickness / diameter	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-03-15**

for **DNV GL**

This Certificate is valid until **2020-12-31**.

DNV GL local station: **Istanbul**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-008579-1**
Certificate No: **AMMM00001ZH**

Particulars of the approval

Bars for chain cables

Grade	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Delivery condition ²⁾
VL K1	EAF, CC	Al	220	AR
VL K2	EAF, CC	Al	220	AR
VL K3 (27MnSi5 acc. DIN 17115)	EAF, CC	Al	220	AR

Semi-finished products

Steel type	Product	Steel making ¹⁾	Delivery condition ²⁾
C and C-Mn	Ingot	EAF, IC	AC
	Billet	EAF, CC	AC
Alloy	Ingot	EAF, IC	AC
	Billet	EAF, CC	AC

Remarks:

- 1) EAF: Electric arc furnace
CC: Continuous casting
IC: Ingot casting
- 2) AR: as rolled