

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Alchemia S.A.

Oddzial Stalownia Batory w Chorzowie

Dyrekcyjna 6, 41-506 Chorzów, Poland

is an approved manufacturer of
Steelmaking

in accordance with
DNV GL rules for classification – Ships
DNVGL-OS-B101 – Metallic materials

and the following particulars:

Application area	Steelmaking
Product	Semi-finished products for rolling and forging or piping stock (ingot)
Steel types	Carbon and carbon-manganese steels, Alloy steels, Martensitic stainless steels
Steelmaking	Electric arc furnace, Ingot casting
Deoxidation	Killed
Fine grain elements	See page 2
Heat treatment condition	As cast
Max. thickness	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 **2020-11-23**

for **DNV GL**

This Certificate is valid until **2023-09-14**.

DNV GL local station: **Katowice**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-004950-5**
Certificate No: **AMMM00000U9**
Revision No: **3**

Particulars of the approval

Semi-finished products for rolling and forging or piping stock (ingot)

Steel grades/types	Steel making ¹⁾	Fine grain elements	Max. weight [kg]	Max. diameter [mm]	Heat treatment condition ³⁾
VL A, VL B, VL D, VL E,	EAF, LF, VAD, IC	Al	17300	1398	AC
VL A32, VL D32, VL E32	EAF, LF, VAD, IC	Al+Nb	17300	1398	AC
VL A36, VL D36, VL E36	EAF, LF, VAD, IC	Al	17300	1398	AC
C and C-Mn Steels	EAF, LF, VAD, IC	²⁾	17300	1398	AC
Alloy Steels	EAF, LF, VAD, IC	²⁾	17300	1398	AC
Martenstic stainless steels	EAF, LF, VAD, IC	-	17300	1398	AC

Remarks:

- 1) EAF: Electric arc furnace; LF: Ladle furnace; VAD: Vacuum arc degassing; IC: Ingot casting.
- 2) Fine grain element(s) may be given in accordance with relevant standards or Rules.
- 3) AC: As cast.