



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000U9**  
Revision No:  
**4**

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 rules for classification – Ships**  
**DNV-OS-B101 – Metallic materials**

and the following particulars:

<b>Application area</b>	<b>Steelmaking</b>
<b>Product</b>	<b>Semi-finished products for rolling and forging or piping stock (ingot)</b>
<b>Steel types</b>	<b>Carbon and carbon-manganese steels, Alloy steels, Martensitic stainless steels</b>
<b>Steelmaking</b>	<b>Electric arc furnace, Ingot casting</b>
<b>Deoxidation</b>	<b>Killed</b>
<b>Fine grain elements</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>As cast</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 **2023-09-08**

for **DNV**

This Certificate is valid until **2026-09-14**.

DNV local unit: **Katowice CMC**

Approval Engineer: **Stefan Röhr**

**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.



## Particulars of the approval

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

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