



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001HE
Revision No:
4

This is to certify:

That

Schmiedewerke Gröditz GmbH
Riesaer Straße 1, 01609 Gröditz,
Germany

is an approved manufacturer of
Steelmaking

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0242 Semi-finished steel products

and the following particulars:

Application area	Steelmaking
Products	Semi-finished products for rolling or forging stock (ingots)
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Martensitic stainless Austenitic-ferritic (duplex) stainless
Manufacturing method	Electric Arc Furnace, Electro Slag Remelting, Ingot Casting
Deoxidation	Killed
Max. weight	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 **2023-05-23**

This Certificate is valid until **2026-03-31**.

DNV local unit: **Magdeburg**

Approval Engineer: **Christian Wildhagen**



for **DNV**

Digitally Signed By: Roehr, Stefan

Location: DNV Hamburg, Germany

Signing Date: 23.05.2023 , on behalf of

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

Semi-finished products

Steel type	Product ³⁾	Steel making ¹⁾	Max weight [kg] ³⁾	Heat treatment condition ²⁾
C and C-Mn	ingots	EAF, ESR, IC	79 000 / 84 000	AC
Alloy	ingots	EAF, ESR, IC	79 000 / 84 000	AC
Martensitic stainless	ingots	EAF, ESR, IC	79 000 / 84 000	AC
Austenitic stainless	ingots	EAF, ESR, IC	79 000 / 84 000	AC
22 Cr duplex	ingots	EAF, ESR, IC	79 000 / 84 000	AC

Remarks:

- 1) EAF: Electric arc furnace; ESR: Electro slag remelting; IC: Ingot casting
- 2) AC: As cast
- 3) Max. weight: 79 000 kg for EAF process, 84 000 kg for ESR process