



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000RS
Revision No:
3

This is to certify:

That

Rubiera Special Steel S.p.A.
Via XXV Aprile, 64
42013 Casalgrande RE,
Italy

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) Carbon and carbon-manganese, Alloy,
Steel type	Austenitic Stainless, Martensitic Stainless, Ferritic Stainless
Manufacturing method	See page 2
Deoxidation	Killed
Max. thickness/diameter	See page 2
Heat treatment condition	See page 2
Additional approval conditions	Including Clean Steel Ingots

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 **2023-07-31**

for **DNV**

This Certificate is valid until **2026-10-04**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Form code: AM 311

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Particulars of the approval

Semi-finished products

Steel type ³⁾	Product	Steel making ¹⁾	Max weight [kg]	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	Ingot	EAF, IC	145 000	2 300	AC
Alloy	Ingot	EAF, IC	145 000	2 300	AC
Austenitic stainless	Ingot	EAF, IC	145 000	2 300	AC
Martensitic stainless	Ingot	EAF, IC	145 000	2 300	AC
Ferritic stainless	Ingot	EAF, IC	145 000	2 300	AC
Clean steel in grades: 17NiCrMo14, 17NiCrMo6-4, 31CrMoV9 and 42CrMo4	Ingot	ESR, IC	100 000	1 815	AC
Clean steel in grades: 17NiCrMo14, 17NiCrMo6-4, 31CrMoV9 and 42CrMo4	Ingot	VAR, IC	27 000	1 815	AC

Remarks:

- 1) EAF: Electric Arc Furnace; VAR: Vacuum Arc Remelting; ESR: Electro Slag Remelting;
IC: Ingot Casting
- 2) AC: As Cast
- 3) Clean Steel referring to DNV-RU-SHIP-Pt2-Ch2-Sec6.1.6.10