



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001M7
Revision No:
3

This is to certify:

That

ArcelorMittal Warszawa Sp. z o.o.
Kasprowicza 132, 01-949 Warszawa,
Poland

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0243 Rolled steel products – non stainless steel

and the following particulars:

Application area	Steelmaking,
Products	Bars for chain cables
Steel type	Rolled bars intended to be machined into components,
Manufacturing method	Bars for chain cables
Deoxidation	Carbon and Carbon-Manganese,
Fine grain elements	Alloy
Max. diameter	Electric Arc Furnace, Continuous Casting
Heat treatment condition	Killed
	AI
	See page 2
	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 **2023-10-13**

for **DNV**

This Certificate is valid until **2026-10-31**.

DNV local unit: **Katowice CMC**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Rolled round bars intended to be machined into components

Steel type	Product	Steel making ¹⁾	Max. diameter [mm]	Heat treatment condition ²⁾
C and C-Mn	Round bars	EAF, CC	125 ³⁾	N
Alloy	Round bars	EAF, CC	125 ³⁾	QT

Bars for chain cable

Steel type	Product	Steel making ¹⁾	Max. diameter [mm]	Heat treatment condition ²⁾
NV K3	Round bars	EAF, IC	150	AR

Remarks:

- ¹⁾ EAF: Electric Arc Furnace; CC: Continuous Casting;
- ²⁾ AR: As rolled; N: Normalized; QT: Quenched and tempered
- ³⁾ Minimum rolling reduction ratio 4:1