

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002W1

This is to certify:

That

AB Sandvik Materials Technology
Storgatan 2, 811 81 Sandviken,
Sweden

is an approved manufacturer of
Steelmaking

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Steelmaking
Products	Nickel base alloys Semi-finished products for rolling or forging stock (round and square billets)
Material type	Austenitic stainless, Austenitic-ferritic (Duplex) stainless, Nickel Alloys
Manufacturing method	EAF (VAR), AOD, LF, IC or CC
Deoxidation	Killed
Max weight [kg]	See page 2
Max. thickness / diameter	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 **2021-06-15**

for **DNV**

This Certificate is valid until **2024-06-14**.

DNV local station: **Stockholm**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Semi-finished products

Steel type	Product	Steel making ^{1) 3)}	Dimension range (round form)	Dimension range (square form)	Heat treatment condition ²⁾
Austenitic stainless steel	Billets	EAF, AOD, LF, CC or IC,	80 – 450 mm	80 – 450 mm	AR, AF
Austenitic-ferritic (Duplex) stainless steel	Billets	EAF, AOD, LF, CC or IC	80 – 350 mm	80 – 350 mm	AR, AF
Austenitic stainless steel grade 904L (1.4539)	Billets	EAF, AOD, LF, CC or IC	80 – 350 mm	80 – 350 mm	AR, AF
Austenitic stainless steel grade 254SMO	Billets	EAF, AOD, LF, CC or IC	80 – 350 mm	80 – 350 mm	AR, AF
Nickel Alloy grade AISI A20 / A825	Billets	EAF, AOD, LF, CC or IC	80 – 350 mm	80 – 350 mm	AR, AF

Remarks:

- 1) EAF: Electric Arc Furnace
 AOD: Argon Oxygen Decarburization
 CC: Continuous Casting
 IC: Ingot Casting
- 2) AR: As rolled; AF: As forged
- 3) Optional VAR (Vacuum Arc Remelting) furnace to produce a steel with a low content of non-metallic inclusions