

# APPROVAL OF MANUFACTURER CERTIFICATE

**This is to certify:**

That  
**Breitenfeld Edelstahl AG**  
**Breitenfeldstr. 22, 8662 Mitterdorf , Austria**

is an approved manufacturer of  
**Steelmaking**

in accordance with  
**DNV GL rules for classification – Ships**  
**DNV GL class programme CP-0346 – Manufacture of metallic materials – General requirements for manufacturer approvals**  
**DNV GL class programme CP-0242 – Manufacture of semi-finished steel products – Steelmaker**

and the following particulars:

<b>Product</b>	<b>Ingots and billets for forging stock, see remark</b>
<b>Steel types</b>	<b>Carbon and carbon-manganese, Alloy, Austenitic stainless, Ferritic stainless, Martensitic stainless, 22Cr and 25Cr duplex stainless, Precipitation hardened</b>
<b>Steelmaking</b>	<b>Electric arc furnace, Electroslag remelting, Vacuum arc remelting, Ingot casting</b>
<b>Deoxidation</b>	<b>Killed</b>
<b>Delivery conditions</b>	<b>See page 2</b>
<b>Max. thickness/diam.</b>	<b>See page 2</b>
<b>Remarks</b>	<b>Including clean steel ingots of grade 18 CrNiMo 7-6</b>

Manufacturer approved by this certificate is accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Høvik** on **2018-07-31**

for **DNV GL**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Augsburg**

Approval Engineer: **Shylate Mahachi**

.....  
**Hanne Anita Hjerpetjønn**  
**Head of Section**



Job Id: **263.11-004182-3**  
Certificate No: **AMMM000026G**

## Particulars of the approval

---

### Semi-finished products: billets and ingots

<b>Steel type</b>	<b>Steel making<sup>1)</sup></b>
C and C-Mn	EAF, ESR, VAR, IC
Alloy	EAF, ESR, VAR, IC
Austenitic stainless	EAF, ESR, VAR, IC
Ferritic stainless	EAF, ESR, VAR, IC
Martensitic stainless	EAF, ESR, VAR, IC
22Cr and 25Cr duplex stainless	EAF, ESR, VAR, IC
Precipitation hardened	EAF, ESR, VAR, IC

Remarks:

- <sup>1)</sup> EAF: Electric arc furnace, ESR: Electroslag remelting, VAR: Vacuum arc remelting, IC: Ingot casting