



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000015Z**  
Revision No:  
**4**

This is to certify:

That

**K. & H. Fischer GmbH**

**Raiffeisenstraße 8, 42477 Radevormwald, Nordrhein-Westfalen, Germany**

is an approved manufacturer for  
**Heat treatment**

in accordance with

**DNV rules for classification – Ships**

**DNV-OS-B101 – Metallic materials**

**DNV class programme – DNV-CP-0351 Manufacture of heat treated products - heat treatment workshop**

and the following particulars:

<b>Application area</b>	<b>Heat treatment workshop</b>
<b>Heat treatment process</b>	<b>Quenching and Tempering, Normalizing, Annealing</b>
<b>Product type</b>	<b>Forging, Gearing, etc.</b>
<b>Steel type</b>	<b>See page 2</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Max. wall thickness</b>	<b>See page 2</b>
<b>Remarks</b>	<b>Approved as an Independent Heat Treatment Company</b>

Manufacturer approved by this certificate is 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 **2023-05-05**

This Certificate is valid until **2026-04-30**.

DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Shylate Mahachi**

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**Thorsten Lohmann**  
**Head of Section**

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Form code: AM 311

Revision: 2022-12

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Page 1 of 2

## Particulars of the approval

### Approval scope for Independent Heat Treatment Company

Item	Description
Product type	Steel forgings, gearings, etc.
Steel Type	Carbon and carbon-manganese, Alloy, Stainless steels, as covered by belows steel standards
Applicable steel standards	ISO 683-1, ISO 683-2, ISO 683-3, EN 10088, EN 10250, EN 10025, EN 10028, ISO 4957
Maximum Loading Weight	15 000 kg
Max. Thickness	Proprietary
Heat Treatment Type	Quenching and Tempering, Normalizing, Annealing (Soft annealing, Solution annealing, Stress relief annealing, +TH and +FP annealing)