



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000015Z
Revision No:
3

This is to certify:

That

K. & H. Fischer GmbH
Raiffeisenstraße 8, 42477 Radevormwald,
Germany

is an approved manufacturer of
Heat treatment

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials

and the following particulars:

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

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 **2022-06-10**

for **DNV**

This Certificate is valid until **2023-04-30**.

DNV local station: **Essen**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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	2 650 mm
Heat Treatment Type	Quenching and Tempering, Normalizing, Annealing (Soft annealing, Solution annealing, Stress relief annealing, +TH and +FP annealing)