Certificate no.:
TAW00005SH

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Wire/Flux combination

with trade name
UP-S3MoTiB / OP 132 (Lincoln Electric Europe B.V.)

Manufacturer
Hermann Fliess & Co. GmbH
Duisburg, **Germany**

is found to comply with
DNV rules for classification – Ships
DNV offshore standards
DNV class programme DNV-CP-0069 – Type approval – Welding consumables

with this approval

Grade	**V Y46M H5**
Current	**AC, DC(+)**
Approved diameter	**4.0 mm**
Positions	**Flat**
Remarks	**Multi-wire welding** **As welded condition** **Flux: Only valid for lot numbers starting with D1**

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2024-06-17**
This Certificate is valid until **2029-06-16**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Ludger Hachmöller**

Any significant change in design or construction may render this Certificate invalid.
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.