TYPE APPROVAL CERTIFICATE

Certificate no.:
TAW000050N
Revision No:
1

This is to certify:

that the Wire/Flux combination

with trade name
JW®-1 / JF-B

Manufacturer
Lincoln Electric (Tangshan) Welding Materials Co.,Ltd.
Tangshan, Hebei Province, China

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

with this approval

Grade	**IV YM(H5)**
Current	**DC(+)**
Approved diameter	**Flat: 1.6 mm - 4.8 mm;** **Horizontal: 1.6 mm - 3.2 mm**
Positions	**Flat and Horizontal**
Remarks	**---**

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

Issued at **Hamburg** on **2026-09-28**

This Certificate is valid until **2031-09-28**.
DNV local unit: **Tianjin NB & CMC**

Approval Engineer: **Christine Löll**

for **DNV**

Digitally Signed By:
Christian Wildhagen
Location: DNV Hamburg, Germany

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