

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**that the Wire/Flux combination**

with trade name  
**JW®-1(2x) / 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

<b>Grade</b>	<b>IV Y40M(H5)</b>
<b>Current</b>	<b>AC, DC(+)</b>
<b>Approved diameter</b>	<b>1.6 mm - 4.8 mm</b>
<b>Positions</b>	<b>Flat</b>
<b>Remarks</b>	<b>For multi-run tandem welding</b>

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

Issued at **Hamburg** on **2026-01-15**

This Certificate is valid until **2030-12-31**.

DNV local unit: **Dalian NB & CMC**

Approval Engineer: **Ludger Hachmöller**

for **DNV**



Digitally Signed By:  
**Martin Wenning**  
Location: **DNV Hamburg,**  
**Germany**

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

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