

# TYPE APPROVAL CERTIFICATE

## This is to certify:

That the Wire/Flux combination

with trade name  
**TSW-E40 / TF-210**

Manufacturer

**Tien Tai Electrode Co. Ltd.**  
**Tainan, Taiwan**

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

<b>Grade</b>	<b>V Y46M (H5)</b>
<b>Current</b>	<b>AC, DC(-)</b>
<b>Approved diameter</b>	<b>2.4 mm - 4.0 mm</b>
<b>Positions</b>	<b>Flat</b>
<b>Remarks</b>	

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

Issued at **Hamburg** on **2021-12-20**

for **DNV**

This Certificate is valid until **2026-12-19**.

DNV local station: **Kaohsiung**

Approval Engineer: **Ludger Hachmöller**

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

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

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