

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAW00004F1**  
Revision No:  
**1**

## This is to certify:

that the **Metal Cored Wire/Gas combination**

with trade name  
**TM-88 / M21**

Manufacturer

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

is found to comply with

**DNV rules for classification – Ships**  
**DNV class programme DNV-CP-0069 – Type approval – Welding consumables**  
**DNV offshore standards**

with this approval

<b>Grade</b>	<b>V Y46MS(H5)</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>1.2 mm - 1.6 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	<b>Also for fillet welding</b>

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

Issued at **Hamburg** on **2025-01-28**

This Certificate is valid until **2029-09-22**.

DNV local unit: **Kaohsiung**

Approval Engineer: **Dietmar Liebich**

for **DNV**



Digitally Signed By:  
**Ludger Hachmöller**  
Location: **DNV Hamburg,**  
**Germany**

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

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