



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAW0000330
Revision No:
2

This is to certify:

that the Wire/Flux combination

with trade name
TSW-12KH / TF-210

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

Grade	V Y46M(H5)
Current	AC/DC(+)
Approved diameter	2.4 mm - 4.8 mm
Positions	Flat
Remarks	----

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

Issued at **Hamburg** on **2023-11-27**

for **DNV**

This Certificate is valid until **2028-07-31**.

DNV local unit: **Kaohsiung**

Approval Engineer: **Dietmar Liebich**

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.



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