

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Flux combination**with trade name
TW-2209 / TFS-330

Manufacturer

Tien Tai Electrode Co. Ltd.
Tainan, Taiwan

is found to comply with

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

with this approval

Grade	*
Current	DC(+)
Approved diameter	3.2mm - 4.0mm
Positions	Flat
Remarks	*) Consumable for welding of ferritic-austenitic stainless steels (Duplex steel UNS S31803, 1.4462). Impact tested at -60°C with min. average of 40 Joule.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2019-08-07**This Certificate is valid until **2024-08-06**.DNV GL local station: **Kaohsiung**for **DNV GL**Approval Engineer: **Hans-Joachim Vogt**

Thorsten Lohmann
Head of Section

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

Form code: WELD 1421a

Revision: 2016-12

www.dnvgl.com

Page 1 of 1