



Certificate no.:  
**TAW00005V3**

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**that the Wire/Gas combination**

with trade name  
**TGA-2209 / I1**

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**

with this approval

<b>Grade</b>	-
<b>Current</b>	DC(-)
<b>Approved diameter</b>	1.6 mm - 3.2 mm
<b>Positions</b>	All, except vertical downwards
<b>Remarks</b>	For welding of ferritic-austenitic (duplex) stainless steels UNS S31803 (1.4462)

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

Issued at **Hamburg** on **2024-12-16**

This Certificate is valid until **2029-12-15**.

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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