

# TYPE APPROVAL CERTIFICATE

## This is to certify:

that the Flux Cored Wire/Gas combination

with trade name  
**TWE-712 / C1**

Manufacturer

**Tien Tai Electrode (Kunshan) Co., Ltd.**  
**Kunshan, Jiangsu, China**

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>III Y</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>1.2 mm</b>
<b>Positions</b>	<b>Flat and vertical upwards</b>
<b>Remarks</b>	<b>For automatic welding Only for fillet welding</b>

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

Issued at **Hamburg** on **2025-01-06**

This Certificate is valid until **2030-01-05**.

DNV local unit: **Shanghai**

Approval Engineer: **Ludger Hachmöller**

for **DNV**



Digitally Signed By:  
Martin Wenning  
Location: DNV Hamburg,  
Germany

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

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