

# TYPE APPROVAL CERTIFICATE

## This is to certify:

### That the Electrode

with trade name  
**TNM-9**

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>NV 9Ni</b>
<b>Current</b>	<b>DC (+) / AC</b>
<b>Approved diameter</b>	<b>2.6 mm - 4.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	<b>Also for fillet welding, Impact test at -196°C average value &gt; 47 Joule</b>

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

Issued at **Hamburg** on **2022-11-08**

for **DNV**

This Certificate is valid until **2027-11-07**.

DNV local unit: **Shanghai**

Approval Engineer: **Gabi Dau**

**Thorsten Lohmann**  
**Head of Section**

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

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