

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**J38.12 (J421)**

Manufacturer

**Tianjin Golden Bridge Welding Materials Group Co., Ltd.**  
**Tianjin, China**

is found to comply with

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

with this approval

<b>Grade</b>	<b>2</b>
<b>Current</b>	<b>AC/DC(+/-)</b>
<b>Approved diameter</b>	<b>2,5 - 5,0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	<b>Also for fillet welding</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-05-02**for **DNV GL**This Certificate is valid until **2022-12-31**.DNV GL local station: **Dalian**Approval Engineer: **Ludger Hachmöller**

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

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

