

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**CR-13**

Manufacturer

**CHOSUN WELDING POHANG CO., LTD.**  
**Pohang-si, Gyeongsangbuk-do, Republic of Korea**

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

|                          |                                       |
|--------------------------|---------------------------------------|
| <b>Grade</b>             | <b>2</b>                              |
| <b>Current</b>           | <b>AC/DC(+)</b>                       |
| <b>Approved diameter</b> | <b>2.6mm - 6.0mm</b>                  |
| <b>Positions</b>         | <b>All, except vertical-downwards</b> |
| <b>Remarks</b>           | <b>---</b>                            |

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2017-09-11**for **DNV GL**This Certificate is valid until **2022-09-10**.DNV GL local station: **Ulsan**Approval Engineer: **Hans-Joachim Vogt****Thorsten Lohmann**  
**Head of Section**

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

