

# TYPE APPROVAL CERTIFICATE

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**This is to certify:****That the Electrode**

with trade name  
**Cromarod Duplex**

Manufacturer  
**ITW Welding AB**  
**PARTILLE, Sweden**

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>*</b>                                                                                |
| <b>Current</b>           | <b>DC(+)</b>                                                                            |
| <b>Approved diameter</b> | <b>2,5 mm - 4,0 mm</b>                                                                  |
| <b>Positions</b>         | <b>All, except vertical downwards</b>                                                   |
| <b>Remarks</b>           | <b>*For welding of ferritic-austenitic stainless steels(Duplex) UNS S31803 (1.4462)</b> |

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

Issued at **Hamburg** on **2021-08-19**

This Certificate is valid until **2026-04-12**.

for **DNV**

DNV local station: **Sweden CMC**

Approval Engineer: **Dietmar Liebich**

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

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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

