



Certificate no.:
TAW00005RY

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Electrode

with trade name
Avesta A-E 309L-16

Manufacturer
Voestalpine Bohler Welding Africa (Pty) Ltd
Brits, North West, South Africa

is found to comply with
DNV rules for classification – Ships

with this approval

Grade	NV 309L
Current	AC/DC(+)
Approved diameter	2.5 mm - 4.0 mm
Positions	All, except vertical downwards
Remarks	With carbon content up to 0.04% Also for fillet welds

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

Issued at **Hamburg** on **2024-05-22**

This Certificate is valid until **2029-05-21**.

for **DNV**

DNV local unit: **Cape Town**

Approval Engineer: **Ludger Hachmöller**

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.

