

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Gas combination

with trade name
Thermanit A-318 / I1

Manufacturer

voestalpine Böhler Welding Germany GmbH
Hamm , Germany

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

Grade	VL 318
Current	DC(-)
Approved diameter	0,8 - 5,0mm
Positions	All, except vertical downwards
Remarks	For Tungsten inert gas welding (TIG) Impact test at -120°C average value > 32 Joule

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

Issued at **Hamburg** on **2020-01-17**

This Certificate is valid until **2020-12-31**.

for **DNV GL**

DNV GL local station: **Essen**

Approval Engineer: **Dietmar Liebich**

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Thorsten Lohmann
Head of Section

