

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Gas combination

with trade name
Thermanit 22/09 / I1

Manufacturer

voestalpine Böhler Welding Germany GmbH
Hamm, Germany

is found to comply with
DNV GL rules for classification – Ships

with this approval

Grade	UNS S31803 (1.4462)
Current	DC -
Approved diameter	1,0 - 3,2mm
Positions	All, except vertical down
Remarks	Impact test at -40°C > 47 Joule For Tungsten inert gas welding

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

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

Issued at **Hamburg** on **2016-07-22**

DNV GL local station: **Essen**

for **DNV GL**

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.