

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Gas combination

with trade name

Thermanit GE-316L Si / I1

Manufacturer

**voestalpine Böhler Welding Germany GmbH
Hamm, Germany**

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	VL 316 L
Current	DC -
Approved diameter	0,8 - 4,0mm
Positions	PA, PB, PF, PC (1G, 1F, 2F, 3Gu, 3Fu, 2G)
Remarks	For Tungsten inert gas welding (TIG). Impact test at -196°C average value > 32J.

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 **2016-07-25**

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.