

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Gas combination**

with trade name

Thermanit 17/15 TT / M14

Manufacturer

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

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

Grade	- MS
Current	DC(+)
Approved diameter	1.2 mm
Positions	All, except vertical-downwards
Remarks	For GMAW of VL 1.5Ni up to VL 9Ni
	Impact test at -196°C
	Also for fillet welding
	Gas ISO 14175-M14-ArCO-3/2
	Yield strength of all-weld-metal in flat position: min. 430 MPa

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2019-12-17**This Certificate is valid until **2024-12-16**.DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Ludger Hachmöller**

Thorsten Lohmann
Head of Section

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



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