

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Flux combination

with trade name

Union S 3 Si / UV 418 TT

Manufacturer

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

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	V Y46 M H5
Current	AC, DC +
Approved diameter	2,0 - 4,0mm
Positions	PA, PB (1G, 1F, 2F)
Remarks	As welded condition

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

This Certificate is valid until **2021-03-29**.

Issued at **Hamburg** on **2016-03-30**

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.