

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Gas combination**with trade name
BÖHLER X 70-IG / M21

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	IV Y69S
Current	DC(+)
Approved diameter	1,0 mm - 1,2 mm
Positions	PA, PC, PF (1G, 1F, 2G, 3Gu, 3Fu)
Remarks	Deposited Metal min. 47J at -50°C

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2017-12-06**This Certificate is valid until **2022-12-05**.DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Dietmar Liebich**

Thorsten Lohmann
Head of Section

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

Form code: WELD 1421a

Revision: 2016-12

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