

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Gas combination**with trade name
TG-S709S / I1

Manufacturer

**Kobe Steel Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto Pref, Japan**

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 - 2,4 mm
Positions	Flat, horizontal, overhead and vertical upwards
Remarks	For welding of VL 1.5Ni up to VL 9Ni Impact test at -196°C average value >50 J Also for fillet welding The min. yield strength of the weld metal 400 N/mm²

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2018-11-21**This Certificate is valid until **2023-11-20**.DNV GL local station: **Kobe**for **DNV GL**Approval Engineer: **Ludger Hachmöller**

**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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