

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Gas combination**with trade name
MG-S88A / M21

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	IV Y69MS(H5)
Current	DC(+)
Approved diameter	1.2 mm
Positions	All, except vertical downwards
Remarks	Also for fillet welding. Charpy V-notch impact test: min. 47J at -60°C

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2018-10-17**This Certificate is valid until **2023-10-16**.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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Page 1 of 1