

COPY

DNV-GL

TYPE APPROVAL CERTIFICATE

Certificate No:
TAW00002K8
Revision No:
1

This is to certify:

That the Flux Cored Wire/Gas combination

with trade name
SM-47A / M21*

Manufacturer

**NIPPON STEEL WELDING & ENGINEERING CO.,LTD.,
Narashino Plant
Narashino, Chiba Pref., Japan**

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	V Y46MSH5
Current	DC(+)
Approved diameter	1,2 - 1,4mm
Positions	All, except vertical-down
Remarks	*) M21 (> 5% to 25% CO₂, rest Argon) according to IACS UR W17. Also for fillet welding.

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

Issued at **Hamburg** on **2020-01-22**

This Certificate is valid until **2024-12-17**.

DNV GL local station: **Yokohama**

Approval Engineer: **Dietmar Liebich**



for **DNV GL**

Digitally Signed By: Hachmoeller, Ludger

Location: DNV GL Hamburg, Germany

Signing Date: 2020-01-22 , on behalf of

**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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