



COPY

TYPE APPROVAL CERTIFICATE

Certificate No:
TAW000033S
Revision No:
2

This is to certify:

That the Flux Cored Wire/Gas combination

with trade name
SM-47A / M20*

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

is found to comply with
DNV rules for classification – Ships
DNV class programme DNV-CP-0069 – Type approval – Welding consumables

with this approval

Grade	V Y46MSH5
Current	DC(+)
Approved diameter	1,2 mm - 1,4 mm
Positions	All, except vertical downwards
Remarks	*) M20 (> 5% to 15% CO2, rest Argon) according to ISO 14175. Also for fillet welding.

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

Issued at **Hamburg** on **2023-02-01**

This Certificate is valid until **2027-07-30**.

DNV local unit: **Yokohama**

Approval Engineer: **Dietmar Liebich**



for **DNV**

Digitally Signed By: Hachmoeller, Ludger
Location: DNV Hamburg, Germany
Signing Date: 02.02.2023 , on behalf of

Thorsten Lohmann
Head of Section

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

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