

# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAW00002C3**  
Revision No:  
**2**

## This is to certify:

That the Flux Cored Wire/Gas combination

with trade name  
**SM-3A/M21**

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	IV Y40MS(H5)
Current	DC(+)
Approved diameter	1,0 mm - 1,4 mm
Positions	All, including vertical downwards
Remarks	---

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

Issued at **Hamburg** on **2023-06-15**

This Certificate is valid until **2026-12-06**.

DNV local unit: **Japan CMC**

Approval Engineer: **Dietmar Liebich**



for **DNV**

Digitally Signed By: **Dau, Gabi**  
Location: **DNV Hamburg, Germany**  
Signing Date: **19.06.2023**, on behalf of

**Thorsten Lohmann**  
**Head of Section**

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