



COPY

# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAW0000335**  
Revision No:  
**1**

## This is to certify:

That the Flux Cored Wire/Gas combination

with trade name  
**SF-80A / 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 Y69MS(H5)
Current	DC(+)
Approved diameter	1.2 mm
Positions	All, except vertical downwards
Remarks	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 **2022-06-13**

This Certificate is valid until **2027-07-19**.

DNV local station: **Yokohama**

Approval Engineer: **Dietmar Liebich**



for **DNV**

Digitally Signed By: Dau, Gabi  
Location: DNV Hamburg, Germany  
Signing Date: 2022-06-14, on behalf of

**Thorsten Lohmann**  
Head of Section

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