



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	<b>IV Y69MS(H5)</b>
Current	<b>DC(+)</b>
Approved diameter	<b>1.2 mm</b>
Positions	<b>All, except vertical downwards</b>
Remarks	<b>Also for fillet welding</b>

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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