



**COPY**

Certificate No:  
TAW00004Y8

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Flux Cored Wire/Gas/Backing combination**

with trade name  
**SF-47E / C1 / SB-41**

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

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

with this approval

<b>Grade</b>	<b>V Y 46MS(H5)</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>1,2 mm</b>
<b>Positions</b>	<b>Flat, horizontal and vertical upwards</b>
<b>Remarks</b>	<b>For one-side welding</b>

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

Issued at **Hamburg** on **2021-06-24**

This Certificate is valid until **2026-06-23**.

DNV local station: **Yokohama**

Approval Engineer: **Christine Löll**



for **DNV**

Digitally Signed By: **Wenning, Martin**

Location: **DNV Hamburg, Germany**

Signing Date: **2021-07-02, on behalf of**

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

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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

