

COPY

DNV·GL

Certificate No:  
TAW00004BB

## TYPE APPROVAL CERTIFICATE

### This is to certify:

That the Flux Cored Wire/Gas combination

with trade name  
SF-3E / C1

Manufacturer

**NIPPON STEEL WELDING & ENGINEERING CO., LTD.**  
**Hikari Plant**  
**Hikari, Yamaguchi 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>IV Y42MS(H5)</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>1.2mm - 1.6mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	<b>Also for fillet welding</b>
	<b>Minimum elongation 22%</b>

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

Issued at **Hamburg** on **2019-05-17**

This Certificate is valid until **2024-05-16**.  
DNV GL local station: **Hiroshima**

Approval Engineer: **Ludger Hachmöller**

for **DNV GL**



Digitally Signed By: Wildhagen, Christian  
Location: DNV GL Hamburg, Germany  
Signing Date: 2019-05-24, on behalf of

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

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



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