

COPY



APPROVAL OF WELDING CONSUMABLES CERTIFICATE

No. QBI236026PU/002

This is to certify that the following product, in view of the tests carried out, has been approved.

|                             |  |
|-----------------------------|--|
| <i>Description</i>          | <b>Flux-cored wire/gas combination</b>   |
| <i>Type</i>                 | <b>SM-47A/ 80%Ar + 20%CO2 (M21)</b>  |
| <i>Class</i>                | <b>5Y46MS H5</b>   |
| <i>Applicant</i>            | <b>NIPPON STEEL WELDING &amp; ENGINEERING CO., LTD.<br/>NARASHINO PLANT<br/>7-6-1 Higashi Narashino, Narashino city<br/>275-0001 Chiba<br/>JAPAN</b> |
| <i>Manufacturer</i>         | <b>NIPPON STEEL WELDING &amp; ENGINEERING CO., LTD.</b>  |
| <i>Place of manufacture</i> | <b>NARASHINO PLANT<br/>7-6-1 Higashi Narashino, Narashino city<br/>275-0001 Chiba<br/>JAPAN</b>  |
| <i>Reference standards</i>  | <b>Part D, Chapter 5, Section 2 of RINA Rules for the classification<br/>of ships</b>  |

The approval is valid for one year and can be reconfirmed subject to the satisfactory outcome of the prescribed control tests.

Issued in RINA Korea Marine on January 21, 2026. This Certificate is valid until February 22, 2027



Yu Sai

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

SM-47A/ 80%Ar + 20%CO2 (M21)

|   |   |
|---|---|
| NIPPON STEEL WELDING & ENGINEERING CO., LTD.<br>NARASHINO PLANT | 7-6-1 Higashi Narashino, Narashino city -<br>275-0001 Chiba - JAPAN |
|---|---|

|                   |   |
|-------------------|---|
| Class             | 5Y46MS H5   |
| Diameters         | 1.0-1.4 mm  |
| Welding positions | all positions including vertical<br>in downward direction |
| Type of current   | direct current reverse polarity                           |

This certificate annuls and replaces certificate no. QBI0525PU/001



RINA Korea Marine January 21,  
2026

