



COPY

NIPPON KAIJI KYOKAI

Certificate

Approval No. NKY-3349
Certificate No. TA19683E

OF TYPE APPROVAL

Article: Welding Consumables for Mild Steels for Hull
Brand: A-17
Applicant: NIPPON STEEL WELDING & ENGINEERING CO., LTD.
Hikari Plant
Hikari, Yamaguchi, Japan
Manufacturer: NIPPON STEEL WELDING & ENGINEERING CO., LTD.
Hikari Plant
Hikari, Yamaguchi, Japan
Grade: KMW3
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Electrode: See Table 1
Current: AC, DCEP and DCEN
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	7.0mm	Flat:	7.0mm
Horizontal:	5.0mm	Horizontal Vertical:	7.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
Vertical Upward:	5.0mm	Horizontal Overhead:	5.0mm
Vertical Downward:	Not Applicable	Overhead:	5.0mm
		Vertical Upward:	5.0mm
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force from 1 April 2019 until 23 February 2020.
Issued at Tokyo on 26 April 2019.



H. Kobayashi
General Manager

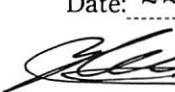



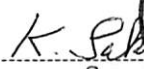





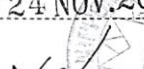

Material and Equipment Department



Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

COPY

Certificate No. TA19683E

<p>The validity of this certificate has been renewed until <u>23 FEB. 2021</u>.</p> <p>Date: <u>22 NOV. 2020</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until <u>23 FEB. 2026</u>.</p> <p>Date: <u>22 NOV. 2025</u></p> <p> Surveyor </p>
<p>The validity of this certificate has been renewed until <u>23 FEB. 2022</u>.</p> <p>Date: <u>27 NOV. 2021</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>23 FEB. 2023</u>.</p> <p>Date: <u>26 NOV. 2022</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>23 FEB. 2024</u>.</p> <p>Date: <u>25 NOV. 2023</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>23 FEB. 2025</u>.</p> <p>Date: <u>24 NOV. 2023</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>