



# NIPPON KAIJI KYOKAI

## Certificate

OF

TYPE APPROVAL

Approval No. NKY-2152  
Certificate No. TA20792E

Article: Welding Consumables for Mild Steels for Hull  
Brand: LB-47  
Applicant: Kobe Steel, Ltd., Saijo Plant  
Higashihiroshima, Hiroshima, Japan  
Manufacturer: Kobe Steel, Ltd., Saijo Plant  
Higashihiroshima, Hiroshima, Japan  
Grade: KMW3H10  
Welding Process: Manual Welding  
Welding Positions and Max. Diameter of Electrode: See Table 1  
Current: AC and DCEP  
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	6.0mm	Flat:	6.0mm
Horizontal:	5.0mm	Horizontal Vertical:	6.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
		Horizontal Overhead:	5.0mm
		Overhead:	5.0mm
Vertical Upward:	5.0mm	Vertical Upward:	5.0mm
Vertical Downward:	Not Applicable	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 until 22 April 2021.

Issued at Tokyo on 8 July 2020.





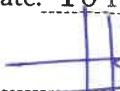

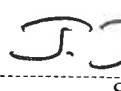

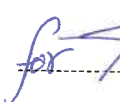

Y. Takao

General Manager

Material and Equipment Department

Notes (1) The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

(2) This certificate was rewritten because of addition of current.

<p>The validity of this certificate has been renewed until <u>22 APR. 2022</u> .</p> <p>Date: <u>30 MAR. 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>22 APR. 2023</u> .</p> <p>Date: <u>28 MAR. 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>22 APR. 2024</u> .</p> <p>Date: <u>10 FEB. 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>22 APR. 2025</u> .</p> <p>Date: <u>9 FEB. 2024</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>22 APR. 2026</u> .</p> <p>Date: <u>16 MAY. 2025</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>