



## NIPPON KAIJI KYOKAI

Approval No. NKY-1001  
Certificate No. TA171219E

*Certificate*OF  
TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: B-17  
Applicant: Kobe Steel Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, Japan  
Manufacturer: Kobe Steel Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, 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  
Applicable Parent Material: Mild Steels for Hull

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	8.0mm	Flat:	8.0mm
Horizontal:	5.0mm	Horizontal Vertical:	8.0mm
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 19 March 2018.



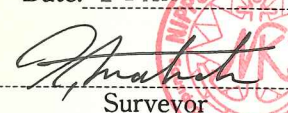
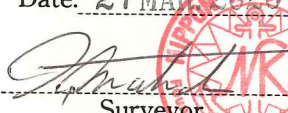


Issued at Tokyo on 8 December 2017.



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.

Certificate No. TA171219E

<p>The validity of this certificate has been renewed until <u>19 MAR. 2019</u> .</p> <p>Date: <u>8 MAR. 2018</u></p> <p> Surveyor</p>	<p>The validity of this certificate has been renewed until <u>19 MAR. 2024</u> .</p> <p>Date: <u>10 FEB. 2023</u></p> <p> Surveyor</p>
<p>The validity of this certificate has been renewed until <u>19 MAR. 2020</u> .</p> <p>Date: <u>14 MAY. 2019</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>19 MAR. 2021</u> .</p> <p>Date: <u>27 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>19 MAR. 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>19 MAR. 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>