



# NIPPON KAIJI KYOKAI

## Certificate

Approval No. NKY-1562  
Certificate No. TA17896E

### OF TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: Z-43F  
Applicant: Kobe Steel, Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, Japan  
Manufacturer: Kobe Steel, Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, Japan  
Grade: KMW2  
Welding Process: Gravity 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 Vertical:	8.0mm
Horizontal:	Not Applicable	Horizontal:	Not Applicable
Overhead:	Not Applicable	Horizontal Overhead:	Not Applicable
		Overhead:	Not Applicable
Vertical Upward:	Not Applicable	Vertical Upward:	Not Applicable
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 20 April 2018.

Issued at Tokyo on 13 July 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. TA17896E

<p>The validity of this certificate has been renewed until <u>20 APR. 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>20 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 <u>20 APR. 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>20 APR. 2021</u> .</p> <p>Date: <u>27 MAR. 2020</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>20 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>20 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>