



NIPPON KAIJI KYOKAI

Approval No. NKY-1219
Certificate No. TA171222E

Certificate

OF

TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: LB-52T
Applicant: Kobe Steel Ltd., Saijo Plant
Higashi-hiroshima, Hiroshima, Japan
Manufacturer: Kobe Steel Ltd., Saijo Plant
Higashi-hiroshima, Hiroshima, Japan
Grade: KMW53Y40H10
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Electrode: See Table 1
Current: AC and DCEP
Shielding Gas: Not Applicable
Applicable Parent Material: High Tensile Steels for Hull

Table 1 Welding Positions and Max. Diameter of Electrode

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

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.



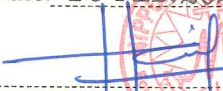

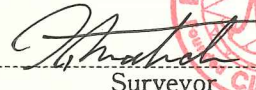



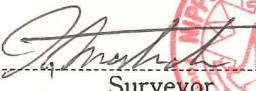





This Certificate will remain in force until 7 February 2018.

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.

<p>The validity of this certificate has been renewed until <u>7 FEB. 2019</u> .</p> <p>Date: <u>8 MAR. 2019</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>7 FEB. 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>7 FEB. 2020</u> .</p> <p>Date: <u>14 MAY. 2019</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>7 FEB. 2025</u> .</p> <p>Date: <u>9 FEB. 2024</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>7 FEB. 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>7 FEB. 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>7 FEB. 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>