



NIPPON KAIJI KYOKAI

Certificate

OF

TYPE APPROVAL

Approval No. NKY-1940
Certificate No. TA201114E

Article: Welding Consumables for High Tensile Steels for Hull
Brand: LB-24
Applicant: Kobe Steel, Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Manufacturer: Kobe Steel, Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Grade: KMW53H10
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Electrode: See Table 1
Current: AC and DCEP
Shielding Gas: Not Applicable

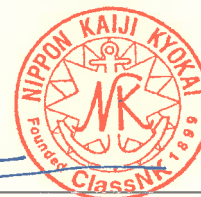
Table 1 Welding Positions and Max. Diameter of Electrode


Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	4.0mm	Horizontal Vertical:	4.0mm
Overhead:	4.0mm	Horizontal:	4.0mm
Vertical Upward:	4.0mm	Horizontal Overhead:	4.0mm
Vertical Downward:	Not Applicable	Overhead:	4.0mm
		Vertical Upward:	4.0mm
		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 until 1 June 2021.

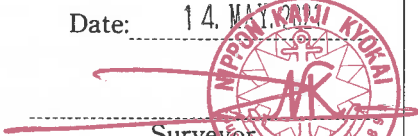


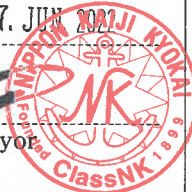


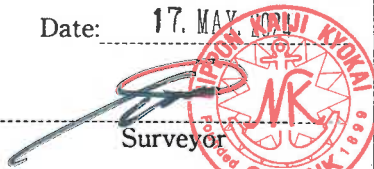

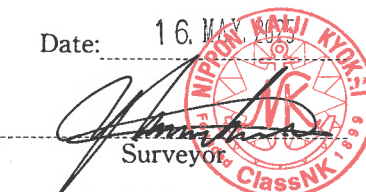

Issued at Tokyo on 25 September 2020.




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.

Certificate No. TA201114E

<p>The validity of this certificate has been renewed until <u>1. JUN. 2022</u> .</p> <p>Date: <u>14. MAY. 2022</u></p> <p> Surveyor</p> <p></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>1. JUN. 2023</u> .</p> <p>Date: <u>27. JUN. 2023</u></p> <p> Surveyor</p> <p></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>1. JUN. 2024</u> .</p> <p>Date: <u>15. MAY. 2023</u></p> <p> Surveyor</p> <p></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>1. JUN. 2025</u> .</p> <p>Date: <u>17. MAY. 2025</u></p> <p> Surveyor</p> <p></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>1. JUN. 2026</u> .</p> <p>Date: <u>16. MAY. 2025</u></p> <p> Surveyor</p> <p></p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>