



# NIPPON KAIJI KYOKAI

Approval No. NKY-1221  
Certificate No. TA171223E

## Certificate

### OF TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: LB-26V  
Applicant: Kobe Steel Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, Japan  
Manufacturer: Kobe Steel Ltd., Saijo Plant  
Higashi-hiroshima, Hiroshima, 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  
Applicable Parent Material: High Tensile Steels for Hull

Table 1 Welding Positions and Max. Diameter of Electrode

| Butt Weld          |                | Fillet Weld          |                |
|--------------------|----------------|----------------------|----------------|
| Flat:              | 6.0mm          | Flat:                | 6.0mm          |
| Horizontal:        | Not Applicable | Horizontal Vertical: | 6.0mm          |
| Overhead:          | 5.0mm          | Horizontal:          | Not Applicable |
| Vertical Upward:   | Not Applicable | Horizontal Overhead: | 5.0mm          |
| Vertical Downward: | 6.0mm          | Overhead:            | 5.0mm          |
|                    |                | Vertical Upward:     | Not Applicable |
|                    |                | Vertical Downward:   | 6.0mm          |

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.

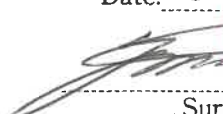

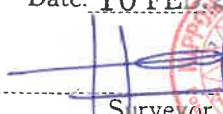

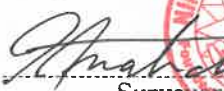

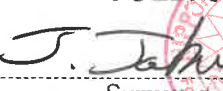

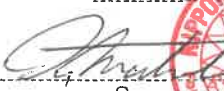





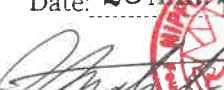

This Certificate will remain in force until 7 February 2018.

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<br/>until <del>(NK) 7 FEB. 2019</del> 7 FEB. 2019 .</p> <p>Date: 8 MAR. 2018</p> <p><br/>Surveyor</p>  | <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2024 .</p> <p>Date: 10 FEB. 2023</p> <p><br/>Surveyor</p>      |
| <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2020 .</p> <p>Date: 14 MAY. 2019</p> <p><br/>Surveyor</p>                             | <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2025 .</p> <p>Date: 9 FEB. 2024</p> <p><br/>Surveyor</p>       |
| <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2021 .</p> <p>Date: 27 MAR. 2020</p> <p><br/>Surveyor</p>                         | <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2026 .</p> <p>Date: 16 MAY. 2025</p> <p><br/>Surveyor</p>  |
| <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2022 .</p> <p>Date: 30 MAR. 2021</p> <p><br/>Surveyor</p>                         | <p>The validity of this certificate has been renewed<br/>until .</p> <p>Date: .</p> <p>Surveyor</p>  |
| <p>The validity of this certificate has been renewed<br/>until 7 FEB. 2023 .</p> <p>Date: 28 MAR. 2022</p> <p><br/>Surveyor</p>                         | <p>The validity of this certificate has been renewed<br/>until .</p> <p>Date: .</p> <p>Surveyor</p>  |