



# NIPPON KAIJI KYOKAI

Approval No. NKY-3540  
Certificate No. TA211227E

## *Certificate* OF *TYPE APPROVAL*

Article: Welding Consumables for High Tensile Steels for Hull  
Brand: MX-200E  
Applicant: Kobelco Welding of Korea Co.,Ltd.  
97, Charyongdanji-ro, Uichang-gu, Chang-won-si,  
Gyeongsangnam-do, Korea  
Manufacturer: Kobelco Welding of Korea Co.,Ltd.  
97, Charyongdanji-ro, Uichang-gu, Chang-won-si,  
Gyeongsangnam-do, Korea  
Grade: KSW54Y40G(C)H5  
Welding Process: Semi-Automatic Welding (MAG Welding)  
Welding Positions and Max. Diameter of Wire: See Table 1  
Current: DCEP  
Shielding Gas: CO<sub>2</sub>

Table 1 Welding Positions and Max. Diameter of Wire

| Butt Weld          |                | Fillet Weld          |                |
|--------------------|----------------|----------------------|----------------|
| Flat:              | 1.4mm          | Flat:                | 1.4mm          |
|                    |                | Horizontal Vertical: | 1.4mm          |
| Horizontal:        | 1.4mm          | 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 12 July 2022.

Issued at Tokyo on 13 July 2021.

  
Y. Takao  
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.

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <p>The validity of this certificate has been renewed<br/>until <u>2023. 07. 12</u> .</p> <p>Date: <u>2022.05.26</u></p> <p><u>S.H. Lee</u><br/>Surveyor</p>       | <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed<br/>until <u>2024. 07. 12</u> .</p> <p>Date: <u>2023</u></p> <p><u>H.W.</u><br/>Surveyor</p>                 | <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed<br/>until <u>2025. 07. 12</u> .</p> <p>Date: <u>2024.05.23</u></p> <p><u>[Signature]</u><br/>Surveyor</p>  | <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed<br/>until <u>2026. 07. 12</u> .</p> <p>Date: <u>2025.05.29</u></p> <p><u>[Signature]</u><br/>Surveyor</p>  | <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p>                                                                                                                            | <p>The validity of this certificate has been renewed<br/>until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |