



NIPPON KAIJI KYOKAI

Approval No. NKY-3462
Certificate No. TA19256E

Certificate

OF TYPE APPROVAL

Article : Welding Consumables for High Tensile Steels for Hull
Brand : MX-100ER
Applicant : Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Manufacturer : Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Grade : KSW53Y40G(C)H5
Welding Process : Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire : See Table 1
Current : DCEP
Shielding Gas : CO₂

Table 1 Welding Positions and Max. Diameter of Wire

| Butt Weld | | Fillet Weld | |
|--------------------|----------------|----------------------|----------------|
| Flat: | 1.2mm | Flat: | Not Applicable |
| Horizontal: | 1.2mm | Horizontal Vertical: | 1.2mm |
| Overhead: | Not Applicable | Horizontal: | Not Applicable |
| Vertical Upward: | Not Applicable | Horizontal Overhead: | Not Applicable |
| Vertical Downward: | Not Applicable | Overhead: | Not Applicable |
| | | Vertical Upward: | 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 7 February 2020.


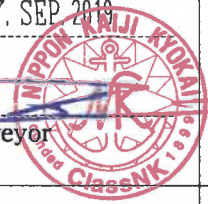

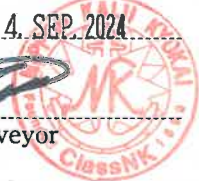








Issued at Tokyo on 8 February 2019.

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.

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| <p>The validity of this certificate has been renewed until <u>7. FEB. 2021</u> .</p> <p>Date: <u>27. SEP. 2019</u></p> <p> Surveyor</p>  | <p>The validity of this certificate has been renewed until <u>7. FEB. 2026</u> .</p> <p>Date: <u>24. SEP. 2024</u></p> <p> Surveyor</p>  |
| <p>The validity of this certificate has been renewed until <u>7. FEB. 2022</u> .</p> <p>Date: <u>28. SEP. 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>27. SEP. 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. 2024</u> .</p> <p>Date: <u>26. SEP. 2023</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. 2025</u> .</p> <p>Date: <u>29. SEP. 2024</u></p> <p> Surveyor</p>  | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p> |