



NIPPON KAIJI KYOKAI

Approval No. NKY-3368
Certificate No. TA181355E

Certificate

OF TYPE APPROVAL

Article : Welding Consumables
Brand : DW-100R
Applicant : Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Manufacturer : Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Grade : KSW52Y40G(C)H10
Welding Process : Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire : See Table 1
Current : DCEP
Shielding Gas : CO₂
Applicable Parent Material : High Tensile Steels for Hull


Table 1 Welding Positions and Max. Diameter of Wire


| Butt Weld | | Fillet Weld | |
|--------------------|-------|----------------------|-------|
| Flat: | 1.4mm | Flat: | 1.4mm |
| Horizontal: | 1.4mm | Horizontal Vertical: | 1.4mm |
| Overhead: | 1.4mm | Horizontal: | 1.4mm |
| Vertical Upward: | 1.4mm | Horizontal Overhead: | 1.4mm |
| Vertical Downward: | 1.4mm | Overhead: | 1.4mm |
| | | Vertical Upward: | 1.4mm |
| | | Vertical Downward: | 1.4mm |

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.


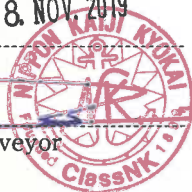
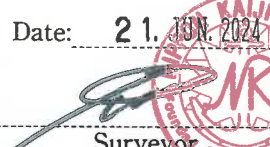
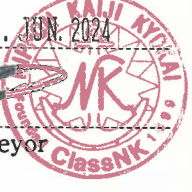
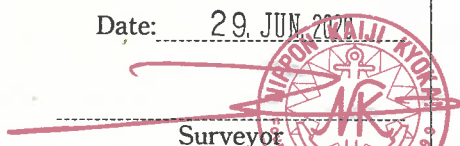

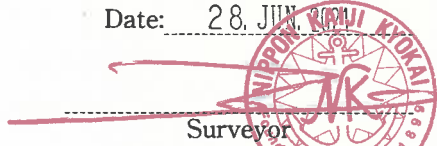

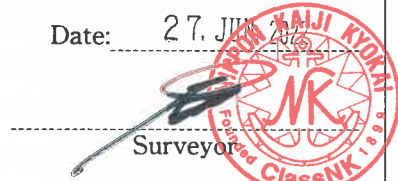

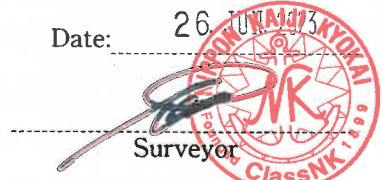

This Certificate will remain in force until 27 June 2019.

Issued at Tokyo on 22 November 2018.


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>27. JUN. 2020</u> .</p> <p>Date: <u>8. NOV. 2019</u></p> <p> Surveyor</p>  | <p>The validity of this certificate has been renewed until <u>27. JUN. 2025</u> .</p> <p>Date: <u>21. JUN. 2024</u></p> <p> Surveyor</p>  |
| <p>The validity of this certificate has been renewed until <u>27. JUN. 2021</u> .</p> <p>Date: <u>29. JUN. 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>27. JUN. 2022</u> .</p> <p>Date: <u>28. JUN. 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>27. JUN. 2023</u> .</p> <p>Date: <u>27. JUN. 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>27. JUN. 2024</u> .</p> <p>Date: <u>26. JUN. 2023</u></p> <p> Surveyor</p>  | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p> |