



NIPPON KAIJI KYOKAI

Approval No. NKY-3367
Certificate No. TA20176E

Certificate OF TYPE APPROVAL

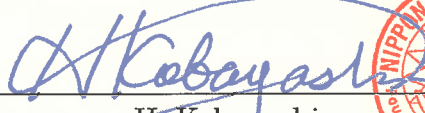
Article : Welding Consumables for High Strength Rolled Steels for Offshore Structures
Brand : DW-62L
Applicant : Kobe Steel, Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Manufacturer : Kobe Steel, Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Grade : KSW5Y50G(C)H5
Welding Process : Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire : See Table 1
Current : DCEP
Shielding Gas : CO₂

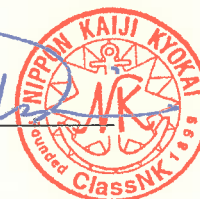
Table 1 Welding Positions and Max. Diameter of Wire

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

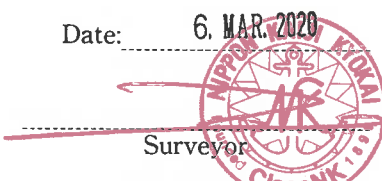
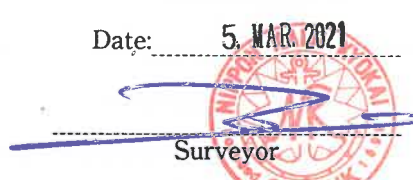
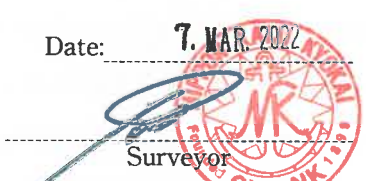
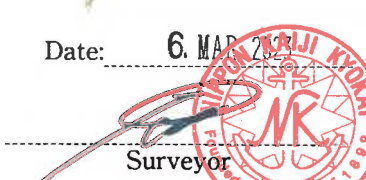
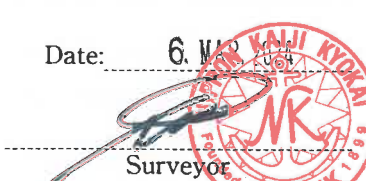
THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force until 27 June 2020.
Issued at Tokyo on 17 February 2020.


H. Kobayashi
General Manager
Material and Equipment Department



Note : (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 welding positions.

| | |
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| <p>The validity of this certificate has been renewed until <u>27, JUN. 2021</u> .</p> <p>Date: <u>6. MAR. 2020</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>5. MAR. 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>7. MAR. 2022</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>6. MAR. 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. 2025</u> .</p> <p>Date: <u>6. MAR. 2024</u></p> <p> Surveyor</p> | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p> |