



# NIPPON KAIJI KYOKAI

Approval No. NKY-2228  
Certificate No. TA20855E

## *Certificate* OF TYPE APPROVAL

Article: Welding Consumables for High Tensile Steels for Hull  
Brand: DW-100  
Applicant: Kobelco Welding of Korea Co., Ltd.  
Changwon, Gyeongnam, Korea  
Manufacturer: Kobelco Welding of Korea Co., Ltd.  
Changwon, Gyeongnam, Korea  
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: CO<sub>2</sub>

Table 1 Welding Positions and Max. Diameter of Wire

| Butt Weld          |       | Fillet Weld          |       |
|--------------------|-------|----------------------|-------|
| Flat:              | 1.6mm | Flat:                | 1.6mm |
| Horizontal:        | 1.6mm | Horizontal Vertical: | 1.6mm |
| Overhead:          | 1.6mm | Horizontal:          | 1.6mm |
| Vertical Upward:   | 1.6mm | Horizontal Overhead: | 1.6mm |
| Vertical Downward: | 1.6mm | Overhead:            | 1.6mm |
|                    |       | Vertical Upward:     | 1.6mm |
|                    |       | Vertical Downward:   | 1.6mm |

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 8 February 2022.

Issued at Tokyo on 28 May 2020.




*(Handwritten signature)*

Y. Takao

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 change of the applicant's name and the manufacturer's name.

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| <p>The validity of this certificate has been renewed until <u>2023 .02. 08</u> .</p> <p>Date: <u>2021 .03. 31</u></p> <p><br/>Surveyor</p> | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p>   | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
| <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p>   | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |
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| <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p>   | <p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____<br/>Surveyor</p> |