



NIPPON KAIJI KYOKAI

Certificate

Approval No. NKY-3566
Certificate No. TA22639E

OF TYPE APPROVAL

Article: Welding Consumables for High Strength Rolled Steels for Offshore Structures
Brand: DW-70E
Applicant: Kobe Steel Ltd., Ibaraki Plant
2-19, Higashi-Unobe-Cho, Ibaraki, Osaka, Japan
Manufacturer: Kobe Steel Ltd., Ibaraki Plant
2-19, Higashi-Unobe-Cho, Ibaraki, Osaka, Japan
Grade: KSW3Y62G(C)H5, Manufacturer's Specification
Welding Process: Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: CO₂
Remarks: 1) Guaranteed Mechanical Properties of Manufacturer's spec
Min. Mean Absorbed Energy at -40°C: $\geq 47\text{J}$ for Deposited Metal
 $\geq 47\text{J}$ for Butt Weld
2) Annual inspection
Tensile test and impact tests for deposited metal are to comply with the requirements of Table 2 (See the reverse side).

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 21 July 2023.

Issued at Tokyo on 22 July 2022.

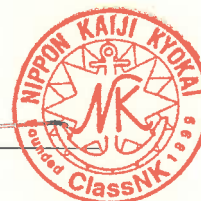
Y. Takao

General Manager

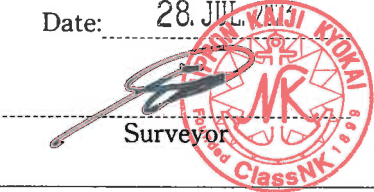
Material and Equipment Department

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 address and the manufacturer's address.



Certificate No. TA22639E

<p>The validity of this certificate has been renewed until <u>21. JUL. 2024</u> .</p> <p>Date: <u>28. JUL. 2024</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 _____ .</p> <p>Date: _____</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 _____ .</p> <p>Date: _____</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 _____ .</p> <p>Date: _____</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 _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>