



NIPPON KAIJI KYOKAI

Certificate

OF

TYPE APPROVAL

Approval No. NKY-3604
Certificate No. TA23388E

Article: Welding Consumables for Steels for Low Temperature Service
Brand: DW-N709SP
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: KSWL92G(C)
KSWL92G(C)-YP430M-TS690M
Welding Process: Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: CO₂
Remarks: For annual inspection, mechanical properties are to comply with the requirements specified in Table 2.

Table 1 Welding Positions and Max. Diameter of Wire for Both Grades

Butt Weld		Fillet Weld	
Flat:	1.2mm	Flat:	1.2mm
Horizontal:	1.2mm	Horizontal Vertical:	1.2mm
Overhead:	Not Applicable	Horizontal:	1.2mm
Vertical Upward:	1.2mm	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		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 5 March 2024.

Issued at Tokyo on 6 March 2023.



Y. Takao
General Manager
Material and Equipment Department

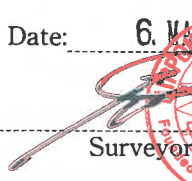
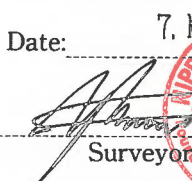
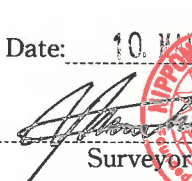
Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

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Table 2 Mechanical Properties

Deposited Metal Test				
Tensile Test			Impact Test	
Tensile strength (N/mm ²)	Yield point (N/mm ²)	Elongation (%)	Testing temperature (°C)	Minimum mean absorbed energy (J)
690 min.	430 min.	25 min.	-196	27

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The validity of this certificate has been renewed until <u>5. MAR. 2025</u> . Date: <u>6. MAR. 2024</u>  Surveyor 	The validity of this certificate has been renewed until _____ . Date: _____ _____ Surveyor
The validity of this certificate has been renewed until <u>5. MAR. 2026</u> . Date: <u>7. MAR. 2025</u>  Surveyor 	The validity of this certificate has been renewed until _____ . Date: _____ _____ Surveyor
The validity of this certificate has been renewed until <u>5. MAR. 2027</u> . Date: <u>10. MAR. 2026</u>  Surveyor 	The validity of this certificate has been renewed until _____ . Date: _____ _____ Surveyor
The validity of this certificate has been renewed until _____ . Date: _____ _____ Surveyor	The validity of this certificate has been renewed until _____ . Date: _____ _____ Surveyor
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