



NIPPON KAIJI KYOKAI

Certificate

OF

TYPE APPROVAL

Approval No. NKY-3651
Certificate No. TA24551E

Article: Welding Consumables for Steels for Low Temperature Service
 Brand: DW-N609S
 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)-YP420M-TS690M
 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

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 28 March 2025.

Issued at Tokyo on 29 March 2024.



 M. Irisawa

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

Grade	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)
KSWL92G(C)-YP420M-TS690M	690 min.	420 min.	25 min.	-196	27
KSWL92G(C)-YP430M-TS690M	690 min.	430 min.	25 min.	-196	27

<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>
<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>
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