



# NIPPON KAIJI KYOKAI

## Certificate

### OF

### TYPE APPROVAL

Approval No. NKY-3390  
Certificate No. TA18998E

Article: Welding Consumables  
Brand: DW-N709SP  
Applicant: Kobe Steel Ltd., Fujisawa Plant  
Fujisawa, Kanagawa, Japan  
Manufacturer: Kobe Steel Ltd., Fujisawa Plant  
Fujisawa, Kanagawa, 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: CO<sub>2</sub>  
Applicable Parent Material: Steels for Low Temperature Service  
Remarks: For annual inspection, mechanical properties are to comply with the requirements specified in Table 2.

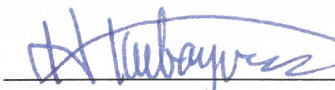
Table 1 Welding Positions and Max. Diameter of Wire for Both Grades

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 28 September 2018.

Issued at Tokyo on 3 September 2018.

  
H. Kobayashi  
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 <sup>2</sup> )	Yield point (N/mm <sup>2</sup> )	Elongation (%)	Testing temperature (°C)	Minimum mean absorbed energy (J)
690 min.	430 min.	25 min.	-196	27

Note: This certificate was rewritten because of addition of grade of welding consumables.

<p>The validity of this certificate has been renewed until <u>28 Sep. 2019</u>.</p> <p>Date: <u>4 DEC. 2018</u></p> <p><u>J. Kotake</u> Surveyor</p>	<p>The validity of this certificate has been renewed until <u>4 Dec. 2023</u>.</p> <p>Date: <u>5 Dec. 2022</u></p> <p><u>J. Kotake</u> Surveyor</p>
<p>The validity of this certificate has been renewed until <u>4 Dec. 2019</u>.</p> <p>Date: <u>4 Dec. 2018</u></p> <p><u>J. Kotake</u> 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>4 Dec. 2020</u>.</p> <p>Date: <u>4 DEC. 2019</u></p> <p><u>J. Kotake</u> 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>4 Dec. 2021</u>.</p> <p>Date: <u>4 Dec 2020</u></p> <p><u>J. Kotake</u> 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>4 Dec. 2022</u>.</p> <p>Date: <u>8 DEC. 2021</u></p> <p><u>J. Kotake</u> Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>