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_2
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 Vertical:	1.2mm
Horizontal:	1.2mm	Horizontal:	1.2mm
Overhead:	Not Applicable	Horizontal Overhead:	Not Applicable
		Overhead:	Not Applicable
Vertical Upward:	1.2mm	Vertical Upward:	1.2mm
Vertical Downward:	Not Applicable	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^2)	Yield point (N/mm^2)	Elongation (%)	Testing temperature (℃)	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.

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The validity of this certificate has been renewed until 28 Sep. 2019. Date: 4 DEC. 2018 Surveyor	The validity of this certificate has been renewed until 4 Dec. 2023. Date: 5 Dec. 2022 Surveyor
The validity of this certificate has been renewed until 4 Dec. 2019. Date: 4 Dec. 2018 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4 Dec. 2020. Date: 4 DEC. 2019 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4 Dec. 2021. Date: 4 Dec 2020 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4 Dec. 2022. Date: 6 DEC. 2021 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor