NIPPON KAIJI KYOKAI

Certificate

OF

TYPE APPROVAL

Approval No. NKY-2380
Certificate No. TA20859E

Article:	Welding Consumables for High Tensile Steels for Hull and Steels for Low Temperature Service
Brand:	DW-55L
Applicant:	Kobelco Welding of Korea Co., Ltd. Changwon-si, Gyeongsangnam-do, Korea
Manufacturer:	Kobelco Welding of Korea Co., Ltd. Changwon-si, Gyeongsangnam-do, Korea
Grade:	KSWL3G(C)H5 KSW54Y40G(C)H5 KSWL3G(C)H5-TS540M
Welding Process:	Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire:	See Table 1
Current:	DCEP
Shielding Gas:	CO_2
Remarks:	For annual inspection, mechanical properties are to comply with the requirements specified in Table 2.

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 29 July 2021.
Issued at Tokyo on 28 May 2020.

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 name and the manufacturer's name.

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

Butt Weld		Fillet Weld	
Flat:	1.4mm	Flat:	1.4mm
		Horizontal Vertical:	1.4mm
Horizontal:	1.4mm	Horizontal:	1.4mm
Overhead:	1.4mm	Horizontal Overhead:	1.4mm
		Overhead:	1.4mm
Vertical Upward:	1.4mm	Vertical Upward:	1.4mm
Vertical Downward:	1.4mm	Vertical Downward:	1.4mm

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)
540~660	400 min.	22 min.	-60	47

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The validity of this certificate has been renewed until 2022.07.29. Date: 2021.03.31 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 2023.07.29. Date: 2022.05.26 S.H.Lee Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 2024.07.29. Date: 2023.06.08 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 2025.07.29. Date: 2024.05.23 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