

NIPPON KAIJI KYOKAI

Approval No. NKY-3096 Certificate No. TA22439E

Certificate

APPROVAL. TYPE

Article:

Welding Consumables for High Tensile Steels for Hull

Brand:

DW-S1LG / KL4 [Wire / Backing]

Kobe Steel, Ltd., Ibaraki Plant

Applicant:

2-19, Higashi-Unobe-Cho, Ibaraki, Osaka, Japan

Manufacturer:

Kobe Steel, Ltd., Ibaraki Plant

2-19, Higashi-Unobe-Cho, Ibaraki, Osaka, Japan

Grade:

KEW54Y40

KEW55Y40

Welding Process:

Electro-Gas Welding

Welding Positions and Max. Diameter of Wire: See Table 1

Current:

DCEP

Shielding Gas:

 CO_2

Remark:

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:	Not Applicable	Flat:	Not Applicable	
		Horizontal Vertical:	Not Applicable	
Horizontal:	Not Applicable	Horizontal:	Not Applicable	
Overhead:	Not Applicable	Horizontal Overhead:	Not Applicable	
		Overhead:	Not Applicable	
Vertical Upward:	1.6 mm	Vertical Upward:	Not Applicable	
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 25 June 2023.

Issued at Tokyo on 15 June 2022.

Y. Takao

General Manager

Material and Equipment Department

Notes:

- (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 addition of grade of welding consumable.

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Table 2 Mechanical Properties

		Butt	Weld Test		
Tensile Test	Longitudinal Tensile Test		Impact Test		
Tensile strength (N/mm²)	Tensile strength (N/mm²)	Yield point (N/mm²)	Elongation (%)	Testing temperature (°C)	Minimum mean absorbed energy (J)
510 min.	510~690	400 min.	22 min.	-60	39

The validity of this certificate has been	renewed The validity of this certificate has been renewed
until 2 5. JUN. 2024	until
Date: 6. MR	Date: Surveyor
The validity of this certificate has been	The validity of this certificate has been renewed
until 2 5. JUN. 2025	until .
Date: 17 MAY	Date:
Surveyor	Surveyor
The validity of this certificate has been	The validity of this certificate has been renewed
until 25. JUN. 2026	· until
Date: 16, 17	Date: Surveyor
The validity of this certificate has been	The validity of this certificate has been renewed
until	until
Date:	Date:
Surveyor	Surveyor
The validity of this certificate has been	The validity of this certificate has been renewed
until	until
Date:	Date:
Surveyor	Surveyor