

## NIPPON KAIJI KYOKAI

Approval No. NKY-2198-A Certificate No. TA211253E

TYPE APPROVAL

Article:

Welding Consumables for High Tensile Steels for Hull

Brand:

DW-Z100

Applicant:

Kobe Steel, Ltd., Ibaraki Plant

2-19, Higashiunobe-cho, Ibaraki, Osaka, Japan

Manufacturer:

Kobe Steel, Ltd., Ibaraki Plant

2-19, Higashiunobe-cho, Ibaraki, Osaka, Japan

Grade:

KSW52Y40G(C)

KSW52G(C)H10

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

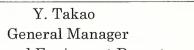
with the requirements specified in Table 2.

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

Butt Weld		Fillet Weld
Flat:	1.6mm	Flat: 1.6mm
		Horizontal Vertical: 1.6mm
Horizontal:	1.6mm	Horizontal: 1.6mm
Overhead:	1.6mm	Horizontal Overhead: 1.6mm
		Overhead: 1.6mm
Vertical Upward:	1.6mm	Vertical Upward: 1.6mm
Vertical Downward:	1.6mm	Vertical Downward: 1.6mm

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 2022. Issued at Tokyo on 18 November 2021.



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.

<sup>(2)</sup> This certificate was rewritten because of addition of grade of welding consumable.

The validity of this certificate has been renewed	The validity of this certificate has been renewed
until 25. JUN. 2023	until
Date: 27, July 1000 Surveyor Class No.	Date:Surveyor
The validity of this certificate has been renewed	The validity of this certificate has been renewed
until 25. JUN. 2024 .	until .
Date: 10. J	Date: Surveyor
The validity of this certificate has been renewed until 25. JUN. 2025	The validity of this certificate has been renewed until
Date: 21, JUN, 2024 Surveyor	Date:Surveyor
The validity of this certificate has been renewed	The validity of this certificate has been renewed
until 2 5. JUN. 2026 -	until
Date: 26. JUN 2027	Date:
Surveyor	Surveyor
The validity of this certificate has been renewed	The validity of this certificate has been renewed
until	until
Đate:	Date:
Surveyor	Surveyor