

NIPPON KAIJI KYOKAI

Approval No. NKY-3112 Certificate No. TA18546E Certificate

TYPE APPROVAL

Article

: Welding Consumables

Brand

: DW-Z1S

Applicant

Kobe Steel Ltd., Ibaraki Plant

: Ibaraki, Osaka, Japan

Manufacturer

: Kobe Steel Ltd., Ibaraki Plant

Ibaraki, Osaka, Japan

Grade

KSW52G(C)H10

Welding Process

: Semi-Automatic Welding (MAG Welding)

Welding Positions and Max. Diameter of Wire:

See Table 1

Current

: DCEP

Shielding Gas

 $: CO_2$

Applicable Parent Material:

High Tensile Steels for Hull

Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	1.2mm	Flat:	1.2mm
		Horizontal Vertical:	1.2mm
Horizontal:	1.2mm	Horizontal:	1.2mm
Overhead:	1.2mm	Horizontal Overhead:	1.2mm
		Overhead:	1.2mm
Vertical Upward:	1.2mm	Vertical Upward:	1.2mm
Vertical Downward:	1.2mm	Vertical Downward:	1.2mm

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 18 December 2018.

Issued at Tokyo on 14 May 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.



The validity of this certificate has been renewed		The validity of this certificate has been renewed	
until	1 8. DEC. 2019 .	until 18. DEC. 2024 .	
	Date: 8 FEB-2019	Date: 29. SED 2027 Surveyor	
The validity	of this certificate has been renewed	The validity of this certificate has been renewed	
until	1 8. DEC. 202 0 .	until 1 8. DEC. 2025 .	
	Date: 27. SEP. 2010 Surveyor	Date: 24, SEP, 2024 Surveyor	
The validity of this certificate has been renewed		The validity of this certificate has been renewed	
until	1 8. DEC. 2021 .	until	
	Date: 2 8, SER 2020 Surveyor	Date: Surveyor	
The validity	of this certificate has been renewed	The validity of this certificate has been renewed	
until	1 8. DEC. 2022	until	
Date: 27. SEP 2001		Date:	
		Surveyor	
The validity	of this certificate has been renewed	The validity of this certificate has been renewed	
until	1 8. DEC. 2023 -	until	
Date: 5. DEC MAJ		Date:	
	Surveyor	Surveyor	