

## NIPPON KAIJI KYOKAI

pproval No. NKY-3157 rtificate No. TA20867E

## TYPE APPROVAL

Article:

Welding Consumables for High Tensile Steels for Hull and

Steels for Low Temperature Service

Brand:

MX-55LF-K2

Applicant:

Kobelco Welding of Korea Co., Ltd.

Changwon, Gyeongnam, Korea

Manufacturer:

Kobelco Welding of Korea Co., Ltd.

Changwon, Gyeongnam, Korea

Grade:

KSW54Y40G(C)H5 and KSWL3G(C)H5

Welding Process:

Semi-Automatic Welding (MAG 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:	1.6mm
		Horizontal Vertical:	1.6mm
Horizontal:	Not Applicable	Horizontal:	Not Applicable
Overhead:	Not Applicable	Horizontal Overhead:	Not Applicable
		Overhead:	Not Applicable
Vertical Upward:	Not Applicable	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 29 October 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.

Table 2 Mechanical Properties

Deposited Metal Test						
Tensile Test			Impact Test			
Tensile strength (N/mm²)	Yield point (N/mm²)	Elongation (%)	Testing temperature $({}^{\circ}\!$	Minimum mean absorbed energy (J)		
510~660	400 min.	22 min.	-60	47		

The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2022 .10 . 29 •	until	
Date: 2021 13 11	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2023. 10.29.	until	
Date: 2022-05.26 AUT	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2024.10.29	until	
Date: 2023 ,06, 0 8	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2025, 10, 29	until	
Date: 2024 05 230	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2026, 10,29	until	
Date: 2025 05 19	Date:	
Surveyor	Surveyor	