

NIPPON KAIJI KYOKAI

Approval No. NKY-2226 Certificate No. TA201173E

Certificate

TYPE APPROVAL

Article:

Welding Consumables for High Tensile Steels for Hull and Steels for

Low Temperature Service

Brand:

MX-55LF

Applicant:

Kobe Steel, Ltd., Ibaraki Plant

Ibaraki, Osaka, Japan

Manufacturer:

Kobe Steel, Ltd., Ibaraki Plant

Ibaraki, Osaka, Japan

Grade:

KSW54G(C)

KSWL3G(C)

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 26 October 2020. Issued at Tokyo on 8 October 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) The certificate was rewritten because of change of Welding positions of Wire.



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)		
490~660	375 min.	22 min.	-40 -60	47 34		

The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 2 6. 0CT. 2021 .	until	
Date: 28. SEP 2020 Surveyor	Date:Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 26. OCT. 2022 .	until	
Date: 27. SEP. William	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 26. OCT. 2023 .	until .	
Date: 26. SEP. UZA	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until 26. OCT. 2024 -	until	
Date: 29, SEP 2007	Date:	
Surveyor	Surveyor	
The validity of this certificate has been renewed	The validity of this certificate has been renewed	
until	until	
Date:	Date:	
Surveyor	Surveyor	