



NIPPON KAIJI KYOKAI

Approval No. NKY-666
Certificate No. TA20772E

Certificate OF TYPE APPROVAL

Article: Welding Consumables for High Strength Steels for Offshore Structures
Brand: US-49 / MF-38
[Wire / Flux]
Applicant: Kobe Steel Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto, Japan
Manufacturer: Kobe Steel Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto, Japan
Grade: KAW3Y46MH10
Welding Process: Submerged Arc Welding
Welding Positions and Max. Diameter of Wire: See Table 1 below
Current: AC
Shielding Gas: Not Applicable

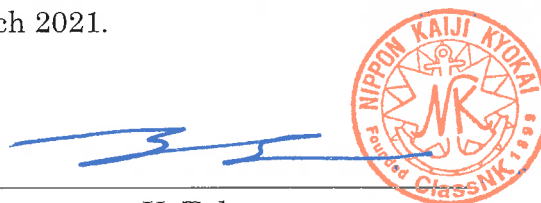
Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	6.4mm	Flat:	Not Applicable
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	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 24 March 2021.

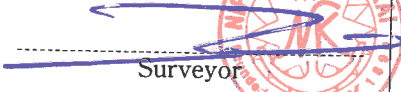
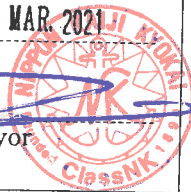
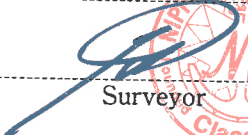

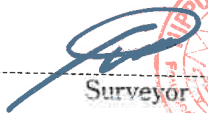
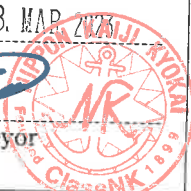
Issued at Tokyo on 9 July 2020.



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 grade.

Certificate No. TA20772E

<p>The validity of this certificate has been renewed until <u>24. MAR. 2022</u> .</p> <p>Date: <u>30. MAR. 2021</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24. MAR. 2023</u> .</p> <p>Date: <u>28. MAR. 2022</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24. MAR. 2024</u> .</p> <p>Date: <u>28. MAR. 2023</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>