



# NIPPON KAIJI KYOKAI

Approval No. NKY-1213  
Certificate No. TA17505E

## Certificate

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: US-43(×2) / PF-I52 / RR-2 / FA-B1  
[Wire / Flux / Metal Powder / Backing Flux]  
Applicant: Kobe Steel Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Manufacturer: Kobe Steel Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Grade: KAW52SP  
Welding Process: Submerged Arc One-Side Welding  
Welding Positions and Max. Diameter of Wire: See Table 1  
Current: AC  
Shielding Gas: Not Applicable  
Applicable Parent Material: High Tensile Steels for Hull

Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	7.9mm	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 2018.

Issued at Tokyo on 29 March 2017.

H. Kobayashi




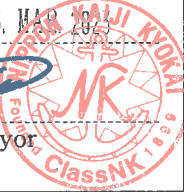

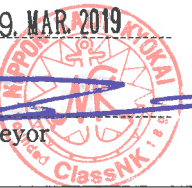


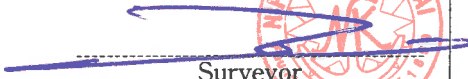

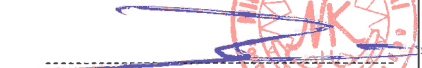
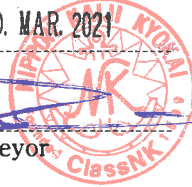


General Manager

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.

Note: This certificate was rewritten because of change of grade of welding consumable.

<p>The validity of this certificate has been renewed until <u>24. MAR. 2019</u> .</p> <p>Date: <u>29. MAR. 2019</u></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. 2024</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>24. MAR. 2020</u> .</p> <p>Date: <u>29. MAR. 2019</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>24. MAR. 2025</u> .</p> <p>Date: <u>29. MAR. 2024</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>24. MAR. 2021</u> .</p> <p>Date: <u>27. MAR. 2020</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. 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>