



# NIPPON KAIJI KYOKAI

Approval No. NKY-3463  
Certificate No. TA19257E

## Certificate

### OF TYPE APPROVAL

Article : Welding Consumables for High Tensile Steels for Hull  
Brand : MX-100ER / FB-B3  
[Wire / Flux]  
Applicant : Kobe Steel Ltd., Ibaraki Plant  
Ibaraki, Osaka, Japan  
Manufacturer : Kobe Steel Ltd., Ibaraki Plant  
Ibaraki, Osaka, Japan  
Grade : KSW53Y40G(C)H5  
Welding Process : Semi-Automatic Welding (MAG Welding)  
Welding Positions and Max. Diameter of Wire : See Table 1  
Current : DCEP  
Shielding Gas : CO<sub>2</sub>


Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	1.2mm	Flat:	Not Applicable
Horizontal:	1.2mm	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 7 February 2020.






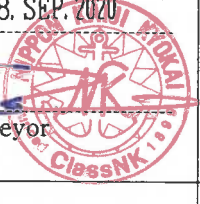

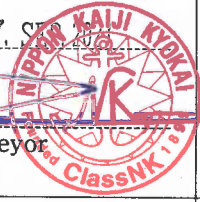
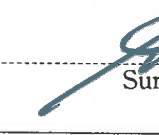
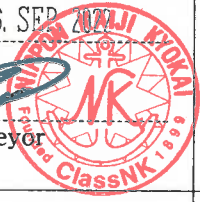
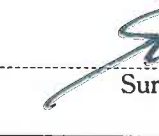
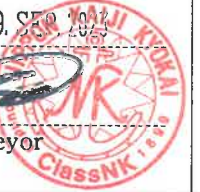
Issued at Tokyo on 8 February 2019.

  
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.

<p>The validity of this certificate has been renewed until 7. FEB. 2021 .</p> <p>Date: 27. SEP. 2019</p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until 7. FEB. 2026 .</p> <p>Date: 24. SEP. 2024</p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until 7. FEB. 2022 .</p> <p>Date: 28. SEP. 2020</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 7. FEB. 2023 .</p> <p>Date: 27. SEP. 2021</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 7. FEB. 2024 .</p> <p>Date: 26. SEP. 2022</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 7. FEB. 2025 .</p> <p>Date: 29. SEP. 2023</p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>