



# NIPPON KAIJI KYOKAI

Approval No. NKY-2954  
Certificate No. TA201069E

## *Certificate* OF TYPE APPROVAL

Article: Welding Consumables for High Tensile Steels for Hull  
Brand: DW-110E  
Applicant: Kobelco Welding of Qingdao Co., Ltd.  
Qingdao, Shandong, China  
Manufacturer: Kobelco Welding of Qingdao Co., Ltd.  
Qingdao, Shandong, China  
Grade: KSW53G(C)H10  
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:	1.4mm	Flat:	1.4mm
Horizontal:	1.4mm	Horizontal Vertical:	1.4mm
Overhead:	1.4mm	Horizontal:	1.4mm
Vertical Upward:	1.4mm	Horizontal Overhead:	1.4mm
Vertical Downward:	1.4mm	Overhead:	1.4mm
		Vertical Upward:	1.4mm
		Vertical Downward:	1.4mm

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.



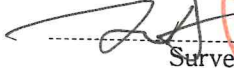

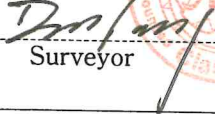




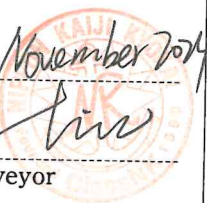
This Certificate will remain in force until 16 December 2020.

Issued at Tokyo on 16 September 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.

<p>The validity of this certificate has been renewed until <u>16 December 2021</u> .</p> <p>Date: <u>20 November 2020</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>16 December 2022</u> .</p> <p>Date: <u>19 November 2021</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>16 December 2023</u> .</p> <p>Date: <u>18 November 2022</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>16 December 2024</u> .</p> <p>Date: <u>17 November 2023</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>16 December 2025</u> .</p> <p>Date: <u>22 November 2024</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>