



# NIPPON KAIJI KYOKAI

Approval No. NKY-3548  
Certificate No. TA22260E

## Certificate

### OF TYPE APPROVAL

Article : Welding Consumables for High Tensile Steels for Hull  
Brand : TWE-712  
Applicant : TienTai Electrode (Kunshan) Co., Ltd.  
No.189 Huayuan Road, Zhangpu Town, Kunshan City, Jiangsu  
Province, China  
Manufacturer : TienTai Electrode (Kunshan) Co., Ltd.  
No.189 Huayuan Road, Zhangpu Town, Kunshan City, Jiangsu  
Province, China  
Grade : KSW53G(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:	1.4mm	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:	Not Applicable	Overhead:	1.4mm
		Vertical Upward:	1.4mm
		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 9 March 2023.

Issued at Tokyo on 10 March 2022.

  
Y. Takao  
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</p> <p>until <u>09 Mar. 2024</u> <del>09 Dec. 2023</del> .</p> <p>Date: <u>09 Dec. 2022</u></p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed</p> <p>until <u>09 Mar. 2015</u> .</p> <p>Date: <u>15 Dec 2013</u></p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed</p> <p>until <u>9 March 2026</u> .</p> <p>Date: <u>20 Dec. 2024</u></p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed</p> <p>until <u>9 March 2017</u> .</p> <p>Date: <u>20 Nov. 2015</u></p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed</p> <p>until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed</p> <p>until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed</p> <p>until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed</p> <p>until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
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