



NIPPON KAIJI KYOKAI

Certificate

OF

TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: TN-28
 Applicant: Tien Tai Electrode Co., Ltd.
 Tainan, Taiwan
 Manufacturer: Tien Tai Electrode Co., Ltd.
 Tainan, Taiwan
 Grade: KMWL3H5
 Welding Process: Manual Welding
 Welding Positions and Max. Diameter of Electrode: See Table 1 below
 Current: AC and DCEP
 Shielding Gas: Not Applicable
 Applicable Parent Material: Steels for Low Temperature Service

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	5.0mm	Flat:	5.0mm
Horizontal:	4.0mm	Horizontal Vertical:	5.0mm
Overhead:	4.0mm	Horizontal:	4.0mm
Vertical Upward:	4.0mm	Horizontal Overhead:	4.0mm
Vertical Downward:	Not Applicable	Overhead:	4.0mm
		Vertical Upward:	4.0mm
		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 25 April 2017.

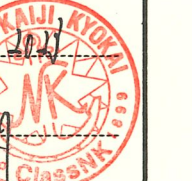
Issued at Tokyo on 26 April 2016.

T. Imamura

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.

The validity of this certificate has been renewed until <u>25th April 2018</u> . Date: <u>14 June 2017</u> <u>[Signature]</u> Surveyor 	The validity of this certificate has been renewed until <u>25th April 2023</u> . Date: <u>27 June 2022</u> <u>[Signature]</u> Surveyor 
The validity of this certificate has been renewed until <u>25th April 2019</u> . Date: <u>4 June 2018</u> <u>[Signature]</u> Surveyor 	The validity of this certificate has been renewed until <u>25th April 2024</u> . Date: <u>19 June 2023</u> <u>[Signature]</u> Surveyor 
The validity of this certificate has been renewed until <u>25th April 2020</u> . Date: <u>24 July 2019</u> <u>[Signature]</u> Surveyor 	The validity of this certificate has been renewed until <u>25th April 2025</u> . Date: <u>5 July 2024</u> <u>[Signature]</u> Surveyor 
The validity of this certificate has been renewed until <u>25th April 2021</u> . Date: <u>9 July 2020</u> <u>[Signature]</u> Surveyor 	The validity of this certificate has been renewed until <u>25th April 2026</u> . Date: <u>24 June 2025</u> <u>[Signature]</u> Surveyor 
The validity of this certificate has been renewed until <u>25th April 2022</u> . Date: <u>18 June 2021</u> <u>[Signature]</u> Surveyor 	The validity of this certificate has been renewed until <u>25th April 2027</u> . Date: <u>21 July 2026</u> <u>[Signature]</u> Surveyor 