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## WELDING CONSUMABLE CERTIFICATE

Report No.: 6970602  
 Port of: Kaohsiung Port  
 Date: 30 July 2025

### THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF TIEN TAI ELECTRODE CO., ATTEND THEIR PLANT AT TAINAN, TAIWAN, R.O.C., ON 23 April 2025 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SUBMERGED ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
TSW-12KM/TF-385	ABS	3YM H10	N/A	F	DCEP	2.4- 4.8 mm
TSW-12KM/TF-565	ABS	3YM H5	N/A	F	AC/DCEP	2.4- 4.8 mm
TSW-12KH/TF-210	ABS	5YQ420M H5	N/A	F	AC/DCEP	2.4- 4.8 mm
TSW-E40/TF-210	ABS	5YQ460M H5	N/A	F	AC/DCEP	2.4- 4.0 mm
TSW-E41/TF-210	ABS	5YQ550M H5	N/A	F	AC/DCEP	2.4- 4.8 mm
TW-2209/TFS-330*	ABS	Stainless***	N/A	F	DCEP	2.4- 4.0 mm
TW-308L/TFS-300*****	ABS	Stainless****	N/A	F	DCEP	2.4- 4.0 mm
TW-308/308L/TFS-300NB**	ABS	Stainless****	N/A	F	DCEP	2.0- 4.0 mm

#### Remarks:

- \* Manufacturer's guaranteed min. Y.S. 450 MPa, T.S. 690 MPa, El. 20%, CVN: 40J @-60°C, Wire composition according to AWS A5.9 ER2209.
- \*\* Manufacturer's guaranteed min. Y.S. 320 MPa, T.S. 520 MPa, El. 35%, CVN: 34J @-196°C, Wire composition according to AWS A5.9 ER308L.
- \*\*\* Intended for welding of duplex stainless steel for corrosion resistance applications.

\*\*\*\* Intended for welding of stainless steel for corrosion resistance applications.

\*\*\*\*\* Manufacturer's guaranteed min. Y.S. 320 MPa, T.S. 520 MPa, El. 35%, CVN: 27J @-196°C, Wire composition according to AWS A5.9 ER308L.

  
Electronically Signed By  
Hsu, Shih-Ming, Kaohsiung Port  
Hsu, Shih-Ming, , Surveyor

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