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WELDING CONSUMABLE CERTIFICATE

Report No.: 7630522

Port of: Kaohsiung Port

Date: 27 July 2026

THIS IS TO CERTIFY that the undersigned Surveyor to this Bureau, at the request of the Company, attended the facility listed below to carry out a survey of the facility and its associated quality assurance and quality control procedures and to witness and report on the ANNUAL approval of welding consumables in accordance with the ABS process for approval of firms manufacturing welding consumables.

It is confirmed, at this time, based on certification tests witnessed by ABS, that the facility is considered capable of providing an acceptable uniform product, and that each welding consumable listed below is considered to be in compliance with the specification indicated and is eligible to be included in the ABS Approved Welding Consumables List, in the section: SUBMERGED ARC WELDING

Company: TIEN TAI ELECTRODE CO., LTD.

Facility Location: No. 6, Kai Fa 4th Road, Rende District, Tainan, Taiwan, R.O.C.

Survey Date(s): 27 July 2026

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	2.4- 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.

Certificate No.: 594722-7630522-069

***** 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
Surveyor 

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