



中國驗船中心

CR Classification Society

Certificate No. 717-25-221

Date 27 June 2025

TYPE APPROVAL CERTIFICATE OF WELDING MATERIALS

This is to certify that the following item/items of welding materials

Brand Name	: TSW-12KM / TF-565
Type	: Wire / Flux Combination for Submerged Arc Welding
Grade	: 3YMH5
Size (Dia.)	: 2.4mm, 3.2mm, 4.0mm & 4.8mm
Position	: Butt Weld - Downhand
Current	: AC or DCEP

manufactured by:

TIEN TAI ELECTRODE CO., LTD.

No. 6, Kaifa 4th Road, Rende District, Tainan City 717, Taiwan, R.O.C.

has/have been approved by this Society in accordance with the Requirements provided in Chapter 4, Part XII of Rules for the Construction and Classification of Steel Ships

This Certificate is valid until 24 June 2030

This approval of welding materials by this Society is to be revoked in any one of the following cases:

1. Where this Society has recognized that the quality of welding materials is remarkably worse than that when the approval test was carried out.
2. Where welding materials have failed to meet the requirements in annual inspections and tests.
3. Where welding materials are not inspected and tested annually as required by the Rules. (see back of this certificate)

CHIEN-HUA HUANG

Chief Surveyor
CR Classification Society



UTN: 717-25-221

Certificate No. 717-25-221

This is to certify that the annual test of the approved welding materials as required by the Rules was carried out to my satisfaction.

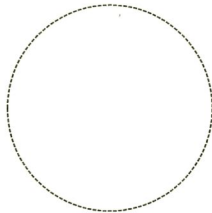


Report No.: 717-26-218

Date: 21 July 2026

Signed: [Signature]

Surveyor
CR Classification Society

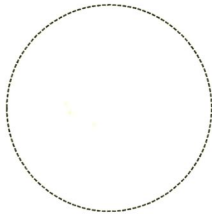


Report No.: _____

Date: _____

Signed: _____

Surveyor
CR Classification Society

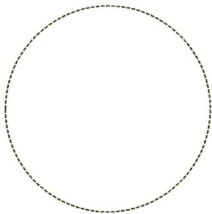


Report No.: _____

Date: _____

Signed: _____

Surveyor
CR Classification Society



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Date: _____

Signed: _____

Surveyor
CR Classification Society