



中國驗船中心

CR Classification Society

Certificate No. 717-25-220

Date 27 June 2025

TYPE APPROVAL CERTIFICATE OF WELDING MATERIALS

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

Brand Name / Type : TL-50D / Manual Arc Welding Electrodes
Grade : 3YH10
Size (Dia.) : 3.2mm, 4.0mm & 5.0mm
Position : Butt Weld and Fillet Weld - Downhand, Horizontal, Vertical-upward, Vertical-downward
& Overhead
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



Certificate No. 717-25-220

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

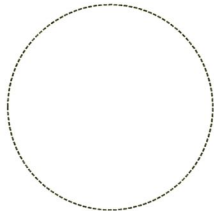


Report No.: 717-26-21A

Date: 21 July 2026

Signed: [Signature]

Surveyor
CR Classification Society

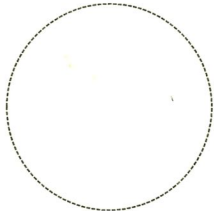


Report No.: _____

Date: _____

Signed: _____

Surveyor
CR Classification Society

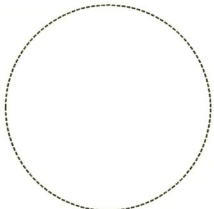


Report No.: _____

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Signed: _____

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CR Classification Society



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Surveyor
CR Classification Society