



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : SHI20103-WD004      **Initial Approval :** 26th October, 2018  
**Product** : Welding Consumables  
**Manufacturer** : Tien Tai Electrode(Kunshan) Co., Ltd.  
No.189, Huayuan Road, Zhangpu Town, Kunshan, Jiangsu Province, 215312,  
P.R.China  
**Product Description** : Flux Cored Wires with Gas for Semi-automatic Arc Welding

- Brand : TWE-712
- Grade : 3YSG(C)H5
- Dia. of Wire(mm) : 1.2
- Current(Polarity) : DC(+)
- Shielding Gas : 100% CO<sub>2</sub>
- Welding Position : All excluding vertical-down

\* See "Appendix 1"

**Approval Condition** : 1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.  
2. Periodical survey is to be carried out at an interval of one(1) year in the presence of the surveyor.  
3. Individual Product Certification is not required.


**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 2, Ch. 2, Sec. 6 of the Rules for Classification of Steel Ships.

This Certificate is valid until 25th October, 2023  
Issued at Shanghai, China on 26th October, 2018



KOREAN REGISTER OF SHIPPING

  
General Manager of  
Technical Support Team  
CHINA KR Co., Ltd.

**Note :** 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.  
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.  
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.  
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

## Endorsement for Periodical Survey

**Certificate No :** SHI20103-WD004

**Date of Issue :** 26th October, 2018

**Anniversary Date :** 25th October

This is to certify that the product is in compliance with the relevant requirements to obtain /retain the Society's approval in accordance with Pt. 2, Ch. 2, Sec. 6 of the Rules for Classification of Steel Ships. and is valid until 25th October, 2019

### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

25th Oct. 2020

Shanghai Office

19th Dec. 2019

Yang Zhang-ming

### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

25th Oct. 2021

Shanghai Office

24th Dec. 2020

Pan Song-tao

### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

25th Oct. 2022

Shanghai Office

7th Dec. 2021

Pan Song-tao

### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

*Note : The approval will be automatically suspended and the Certificate become invalid if not endorsed annually within 3 months after the anniversary date of this Certificate*