



TYPE APPROVAL CERTIFICATE

Certificate No. : SHI20103-WD001 **Initial Approval** : 6th February, 2007
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-711
- Grade : 3YSG(C)H10
- Dia. of Wire(mm) : 1.0, 1.2, 1.4, 1.6
- Current(Polarity) : DC(+)
- Shielding Gas : 100% CO₂
- Welding Position : All including 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 5th February, 2022
Issued at Shanghai, China on 2nd August, 2017



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-WD001

Date of Issue : 2nd August, 2017

Anniversary Date : 5th February

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 5th February, 2018

■ Periodical Survey

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

Branch(Office) :

Date :

Surveyor :

■ Periodical Survey

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

Branch(Office) :

Date :

Surveyor :

■ Periodical Survey

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

Branch(Office) :

Date :

Surveyor :

■ 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



TYPE APPROVAL CERTIFICATE

Certificate No. : SHI20103-WD005 **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 Automatic Arc Welding

- Brand : TM-70C
- Grade : 3YMG(C)H5
- Dia. of Wire(mm) : 1.4
- Current(Polarity) : DC(+)
- Shielding Gas : 100% CO₂
- Welding Position : Flat

* 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

[Signature]
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-WD005

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 : _____

■ **Periodical Survey**

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

Branch(Office) : _____

Date : _____

Surveyor : _____

■ **Periodical Survey**

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

Branch(Office) : _____

Date : _____

Surveyor : _____

■ **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



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% CO₂
- 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".


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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 : _____

■ **Periodical Survey**

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

Branch(Office) : _____

Date : _____

Surveyor : _____

■ **Periodical Survey**

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

Branch(Office) : _____

Date : _____

Surveyor : _____

■ **Periodical Survey**

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

Branch(Office) : _____

Date : _____

Surveyor : _____

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