



TYPE APPROVAL CERTIFICATE

Certificate No. : CSP19246-WD001 **Initial Approval :** 11th April, 1997
Product : Welding Consumables
Manufacturer : Chosun Welding Co., Ltd.
34-13, Hwasan 2-gil, Ulju-gun, Ulsan, Korea

Product Description : Flux Cored Wires with Gas for Semi-automatic Arc Welding

- Brand : CSF-71T, CSM-70T, CSF-71S, CSF-81K2
CSF-308L, CSF-309L, CSF-316L

Wire-flux combinations for submerged arc welding

- Brand : UC36 x CA502, UC36 x CA502H, UC36 x CA508, UC43 x CA514

* See "Appendix 1 & 2"

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

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 10th April, 2022

Reissued at Jangsaengpo, Korea on 22nd September, 2017



KOREAN REGISTER OF SHIPPING


General Manager of
Jangsaengpo Branch Office

*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.*

Appendix 1

Product Description and/or Approval Condition

Certificate No : CSP19246-WD001

Date of Issue :22nd September, 2017

© Product Description ;

- Flux cored wires with gas for semi-automatic arc welding

| Brand | Grade | Diameter (mm) | Welding position | Current (Polarity) | Shielding Gas |
|----------|-------------------------|---------------|------------------|--------------------|----------------------|
| CSF-71T | 2YSG(C)H10 | 1.2 ~ 1.6 | *(1) | DC(+) | CO ₂ 100% |
| CSF-81K2 | 5Y40SG(C)H5 | | | | |
| CSF-71S | 4Y40SG(C)H5 | | | | |
| CSM-70T | 2SG(C)H10 2YSG(C)H10 | 1.2 ~ 1.6 | *(2) | DC(+) | CO ₂ 100% |
| CSF-308L | RW308LG(C) | | | | |
| CSF-309L | RW309LG(C) | | | | |
| CSF-316L | RW316LG(C) | | | | |

* Remark :

- (1) Butt & Fillet: Flat, Horizontal, Vertical-up & down and Overhead
- (2) Butt(Flat), Fillet(Flat, Horizontal-vertical)

- Wire-flux combinations for submerged arc welding

| Brand | Grade | Diameter (mm) | Welding position | Current (Polarity) |
|-------------------|-----------------------|---------------|------------------|--------------------|
| UC36 x CA502 | 2TM, 2YTM | 2.4 ~ 6.4 | Flat | AC/DC(+) |
| UC36 x CA502H | 2T, 3M, 2YT, 3YM | | | |
| UC36 x CA508 *(1) | 4YTH5 4Y40MH5 *(2) | | | |
| UC43 x CA514 | 3TM, 3YTM | | | |

* Remark :

- (1) Suitable for tandem welding
 - (2) Manufacturer's guaranteed mechanical properties (Min. CVN 41J at -60°C)
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Endorsement for Periodical Survey

Certificate No : CSP19246-WD001

Date of Issue : 22nd September, 2017

Anniversary Date : 10th April


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 10th April, 2018

■ Periodical Survey

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

Branch(Office) : 10 April, 2019
Jangsaengpo

Date : 1 Oct. 2018

Surveyor : [Signature]  Kim Tae-yong


■ Periodical Survey

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

Branch(Office) : 10th APRIL 2020
JANGSAENGP0 OFFICE

Date : 30th SEP. 2019

Surveyor : [Signature] (LEE TAE-YOUNG)



■ 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