



Type Approval Certificate

[Welding Consumables]

Initial Approval 11 April 1997

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.

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

This Certificate is valid until 10 April 2027

Issued at Jangsaengpo, Korea on 31 August 2022



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME22025383152) and certificate No.(CSP19246-WD001).



KOREAN REGISTER

*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.

Product Description and/or Approval Condition

Date of Issue : 31 August 2022

◎ 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

Date of Issue : 31 August 2022

Anniversary Date : 10 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 10 April 2023

■ 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