

# Type Approval Certificate



[ Welding Consumables ]

**Initial Approval** 1 September 2016

**Manufacturer** Kobelco Welding of Qingdao Co., Ltd.  
No. 158, Lishan Road, Huangdao District, Qingdao, Shandong Province, P.R.China

**Product Description** Flux cored wires with gas for semi-automatic and automatic arc welding

- Brand : DW-460L / CO<sub>2</sub>
- Grade : 5Y46SMG (C1) H5
- Diameter (mm) : 1.2 ~ 1.4
- Current (Polarity) : DC (+)
- Shielding Gas : CO<sub>2</sub> 100%
- 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.

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

This Certificate is valid until 11 November 2029

Issued at Shanghai, China on 7 April 2025



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.(ME25014343979) and certificate No.(QDO25071-WD002).



**KOREAN REGISTER**

*General Manager of  
Ship System Solution 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

Date of Issue : 7 April 2025

Anniversary Date : 11 November

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 the Classification of Steel Ships. and is valid until 11 November 2025

### ■ 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