



Type Approval Certificate

[Welding Consumables]

Initial Approval 12 November 2009
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 arc welding

- Brand : DW-100/CO₂
- MX-200/CO₂
- MX-200H/CO₂
- MX-200H/MX-200H/CO₂
- DW-55L/CO₂

* 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 11 November 2024

Issued at Qingdao, China on 12 December 2019



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(ME24003927252) and certificate No.(QDO25071-WD001).



KOREAN REGISTER

Changsook Kim

General Manager of Qingdao 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 : 12 December 2019

© Product Description :

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

Brand	Grade	Diameter (mm)	Welding Position	Current (Polarity)	Shielding Gas
DW-100/CO ₂	2YSG(C)	1.2 ~ 1.6	*(1)	DC(+)	CO ₂ 100%
MX-200/CO ₂	2YSG(C)H10	1.2 ~ 1.6	Flat	DC(+)	CO ₂ 100%
MX-200H/CO ₂	3YSG(C)H5	1.2 ~ 1.6	*(2)	DC(+)	CO ₂ 100%
MX-200H/MX-200H/CO ₂	3YSMG(C)	1.4 ~ 1.6	*(2)	DC(+)	CO ₂ 100%
DW-55L/CO ₂	L 3SG(C)H5 5Y40SG(C)H5	1.2 ~ 1.4	*(1)	DC(+)	CO ₂ 100%

* Remarks :

(1) All including vertical-down

(2) Butt(Flat), Fillet(Flat & Horizontal) < End of page >



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Endorsement for Periodical Survey

Date of Issue : 12 December 2019

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 Classification of Steel Ships. and is valid until 11 November 2020

■ Periodical Survey

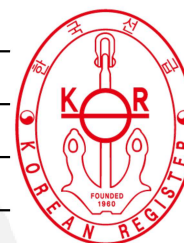
Periodical Survey has been carried out and the product is valid until

11 November 2021

Branch(Office) : Qingdao Branch Office

Date : 13 January 2021

Surveyor : WU Hongjin



■ Periodical Survey

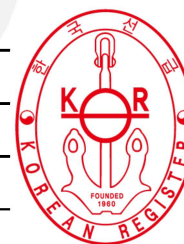
Periodical Survey has been carried out and the product is valid until

11 November 2022

Branch(Office) : Qingdao Branch Office

Date : 1 December 2021

Surveyor : SUN Yongjian



■ Periodical Survey

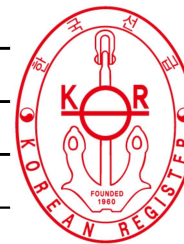
Periodical Survey has been carried out and the product is valid until

11 November 2023

Branch(Office) : Qingdao Branch Office

Date : 23 November 2022

Surveyor : HAN Wenfan



■ Periodical Survey

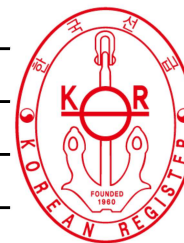
Periodical Survey has been carried out and the product is valid until

11 November 2024

Branch(Office) : Qingdao Branch Office

Date : 23 November 2023

Surveyor : WU Hongjin



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