



# TYPE APPROVAL CERTIFICATE

**Certificate No.** : QDO25071-WD001                      **Initial Approval** : 12th November, 2009  
**Product** : Welding Consumables  
**Manufacturer** : Kobe Welding of Qingdao Co., Ltd.  
The South of 6th Road, The West of 35th Road, Fuyuan Industrial Eastate,  
Qingdao Development Area, Qingdao, P.R.China  
**Product Description** : Flux cored wires with gas for semi-automatic arc welding  
- Brand : DW-100/CO<sub>2</sub>  
          MX-200/CO<sub>2</sub>  
          MX-200H/CO<sub>2</sub>  
          MX-200H/MX-200H/CO<sub>2</sub>  
          DW-55L/CO<sub>2</sub>  
\* 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 11th November, 2024

Issued at Shanghai, China on 12th 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 (ME19035069552) and certificate No.(QDO25071-WD001).



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.*

Appendix 1

## Product Description and/or Approval Condition

Certificate No : QDO25071-WD001

Date of Issue : 12th 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 <sub>2</sub>	2YSG (C)	1.2 ~ 1.6	*(1)	DC(+)	CO <sub>2</sub> 100%
MX-200/CO <sub>2</sub>	2YSG (C) H10	1.2 ~ 1.6	Flat	DC(+)	CO <sub>2</sub> 100%
MX-200H/CO <sub>2</sub>	3YSG (C) H5	1.2 ~ 1.6	*(2)	DC(+)	CO <sub>2</sub> 100%
MX-200H/MX-200H/CO <sub>2</sub>	3YSMG (C)	1.4 ~ 1.6	*(2)	DC(+)	CO <sub>2</sub> 100%
DW-55L/CO <sub>2</sub>	L 3SG (C) H5 5Y40SG (C) H5	1.2 ~ 1.4	*(1)	DC(+)	CO <sub>2</sub> 100%

\* Remarks :

(1) All including vertical-down

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

Appendix 2

## Endorsement for Periodical Survey

Certificate No : QDO25071-WD001

Date of Issue : 12th December, 2019

Anniversary Date : 11th 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 11th November, 2020

■ 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*