



TYPE APPROVAL CERTIFICATE

Certificate No. : TKY03292-WD001 **Initial Approval** : 4th October, 1989
Product : Welding Consumables
Manufacturer : Kobe Steel, Ltd., Ibaraki Plant
2-19, Higashiunobe-cho, Ibaraki-city, Osaka, 567-0879, Japan

Product Description : Flux cored wires with gas for semi-automatic arc welding
- Brand : DW-100/CO₂
 MX-200/CO₂
 MX-200H/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 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 3rd October, 2023
Reissued at Busan, Korea on 30th January, 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 (ME20003563765) and certificate No.(TKY03292-WD001).



KOREAN REGISTER OF SHIPPING

*General Manager of
Marine & Ocean Equipment Team*

*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 : TKY03292-WD001

Date of Issue : 30th January, 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		Flat		
MX-200H/CO ₂	3YSG (C)	*(2)			

*Remarks

- (1) Butt (Flat, Horizontal, Vertical-upward & downward and Overhead),
Fillet (Flat, Horizontal-vertical, Vertical-upward & downward and Overhead)
- (2) Butt (Flat), Fillet (Flat & Horizontal-vertical) < End of page >



Appendix 2

Endorsement for Periodical Survey

Certificate No : TKY03292-WD001

Date of Issue : 30th January, 2019

Anniversary Date : 3rd October

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 3rd October, 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