



中國驗船中心  
CR Classification Society

Certificate No. Q-01-A249

Date Dec. 25, 2017

TYPE APPROVAL CERTIFICATE OF WELDING MATERIALS

This is to certify that the following item/items of welding materials

hereunder mentioned has been approved by this Society in accordance with the requirements of Part XII. Welding / Chapter 4 Welding Materials in the "RULES FOR THE CONSTRUCTION AND CLASSIFICATION OF STEEL SHIPS 2017" and accepted for use in ships classed or intended to be classed with the Society.

manufactured by:

Kobe Steel, Ltd., Ibaraki Plant  
2-19, Higashiunobe-cho, Ibaraki, Osaka, 〒567-0879, Japan

has/have been approved by this Society in accordance with the Requirements provided in

Approved Product : Flux Cored Wire for Semi-Automatic or Automatic Multi-Run Welding with Shielding Gas  
Brand Name : MG-50HM / MX-50HM  
Shielding Gas : CO<sub>2</sub>  
Wire Size : 1.6 mm (MG-50HM) and 1.4 mm (MX-50HM)  
Grade : 3YSM  
Welding Position : Downhand and Horizontal-Fillet  
Current : DCEP

This Certificate is valid until 31/12/2022 (dd/mm/yyyy)

This approval of welding materials by this Society is to be revoked in any one of the following cases:

1. Where this Society has recognized that the quality of welding materials is remarkably worse than that when the approval test was carried out.
2. Where welding materials have failed to meet the requirements in annual inspections and tests.
3. Where welding materials are not inspected and tested annually as required by the Rules. (see back of this certificate); or
4. Where the Manufacturer or Product has any significant change.



C.K. Tsai, Representative in Japan  
CR Classification Society

Issued by CR Classification Society S.A.  
on behalf of CR Classification Society

This is to certify that the annual test of the approved welding materials as required by the Rules was carried out to my satisfaction.



Report No.: KS- 2312

Date: 29 / 06 / 2018  
(dd/mm/yyyy)

Signed: *C. R. Osho*  
for Y. Nakagawa, Surveyor  
CR Classification Society



Report No.: KS- 2376

Date: 8 / 11 / 2019  
(dd/mm/yyyy)

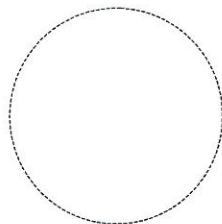
Signed: *[Signature]*  
for Y. Matsuno, Surveyor  
CR Classification Society



Report No.: KS- 2396

Date: 29 / 06 / 2020  
(dd/mm/yyyy)

Signed: *[Signature]*  
for Y. Matsuno, Surveyor  
CR Classification Society



Report No.: \_\_\_\_\_

Date: \_\_\_\_\_  
(dd/mm/yyyy)

Signed: \_\_\_\_\_  
Surveyor  
CR Classification Society