



Certificate number: WM 5496/105/F.0

File number : 5496 N 2018

## TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

## KOBE STEEL, LTD. Fukuchiyama Plant

Fukuchiyama - JAPAN

for the product

## Wire / Flux Combination for Submerged Arc Welding

**Designation**: US-709S/PF-N4

Grade : As per Manufacturer's specifications

Description: Wire/FluxDiameter: 1.6 - 2.4 mmWelding current: DCEP

Welding position : Flat butt weld (PA bw), Horizontal vertical butt weld (PC bw)

**Remark**: Welding of 9% Ni alloy steel.

Wire equivalent to AWS A5.14 ERNiMo-8.

Deposited metal tested with specified Rp0.2 min 410 N/mm², Rm min 690 N/mm², A5 min 35 % and

Charpy V min average KV 50 J at -196 °C.

Butt weld tested with specified Rm min 690 N/mm² and Charpy V min average KV 50 J at -196 °C. When used for units classed with Bureau Veritas, qualification tests of welding procedures are to be

conducted on samples made with this consumable.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

This certificate will expire on: 20 Jul 2024

## For Bureau Veritas Marine & Offshore,

Local office: BV YOKOHAMA Issued on 20 Jul 2023 Surveyor: H. Umezawa

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in

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