



# WELDING CONSUMABLE CERTIFICATE

Certificate No.: 848327-3633401-001\_\_\_\_\_

Report No.: KO3633401\_\_\_\_\_

Port of: KOBE, JAPAN\_\_\_\_\_



Date: 9 JULY 2019\_\_\_\_\_

## THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF KOBE STEEL, LTD. FUKUCHIYAMA PLANT, JAPAN, ATTEND THEIR PLANT AT FUKUCHIYAMA & FUJISAWA, JAPAN, ON THE 5TH DAY OF MARCH, 2019 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE SUBMERGED ARC WELDING SECTION:

<u>TRADE NAME</u>	<u>SPECIFICATION</u>	<u>GRADE OR CLASS</u>	<u>SHIELDING GAS</u>	<u>POSITION</u>	<u>CURRENT/ POLARITY</u>	<u>SIZE</u>
US-80LT/PF-H80AS	ABS	4YQ690**	-	F	DCEP	2.4 - 4.8mm
** Manufacturer's guaranteed min. properties: CVN 47 J at minus 60 Cen. Deg.						
US-2N/PF-H62AS	ABS	5YQ500 H5	-	F	AC/DCEP	2.4 - 4.8
US-2N(X2)/PF-H62AS	ABS	5YQ500 H5	-	F	DCEP	2.4 - 4.8
US-43(X3)/PF-I50/PF-I50R	ABS	2Y	-	F	AC or DC	4.0 - 6.4
US-36/MF-38/RR-2/FA-B1	ABS	2 **	-	F	AC/DCEP	2.4 - 7.9
**Suitable for use with one side welding						
US-36/PF-I52E/RR-2/FA-B1	ABS	3Y	-	F	AC or DC	3.2 - 6.4
US-36(X2)/PF-I52E/RR-2/FA-B1	ABS	3Y**	-	F	AC	2.4 - 7.9
**Suitable for use with tandem one side welding						
US-36(X4)/PF-I55E/RR-2/RF-1	ABS	3Y**	-	F	AC/DCEP	2.4 - 6.4
**Suitable for use with four electrodes one side welding						
US-255(X3)/PF-I50LT/PF-I50R	ABS	5Y400	-	F	AC or DC	3.2 - 6.4
US-255/PF-I50LT/RR-3/FA-B1	ABS	5Y400	-	F	AC or DC	3.2 - 6.4

  
  
 T. OKAMOTO, SURVEYOR

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.