



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 075277-5930044-001_____

Report No.: 5930044_____

Port of: KOBE, JAPAN_____

Date: 20 NOVEMBER 2023_____

THIS IS TO CERTIFY

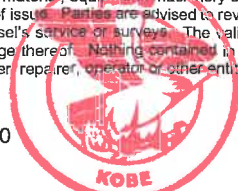
THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF KOBE STEEL, LTD. IBARAKI PLANT, JAPAN, ATTEND THEIR PLANT AT IBARAKI & FUJISAWA, JAPAN, ON THE 6TH DAY OF JULY, 2023 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY 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 FLUX CORED ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
DW-100KP ** Suitable for RCU, RCB for COT	ABS	2YSA, 2Y400SA	H10** C1	All, V-Down	DCEP	1.2-1.4 mm
DW-50LSR	ABS	5Y400SA	H5 C1	All	DCEP	1.2
DW-55LSR	ABS	5YQ420SA	H5 C1	All, V-Down, HF	DCEP	1.2-1.4
DW-55LSR	ABS	4Y400SA	H5 C1	All, V-Down, HF	DCEP	1.2-1.4
DW-60 ** Manufacture's Guarantees min. properties: T.S. 590-740N/mm2, Y.P. 490N/mm2, El. 20%, CVN 47 J at minus 30 Cen. Deg.	**	**	C1	All, V-Down	DCEP	1.2-1.6
DW-67E	ABS	4YQ550SA	H5 C1	All	DCEP	1.2
DW-A50	ABS	3YSA H5	M21(80%Ar-20%CO2)	All, V-Down	DCEP	1.1-1.6(0.045-1/16")
DW-A62L	ABS	5YQ500SA	H5 M21(80%Ar-20%CO2)	All, HF	DCEP	1.2
DW-A81Ni1	ABS	5YQ420SA	H5 M21(80%Ar-20%CO2)	F,H,V-Up, HF	DCEP	1.2
DW-A81Ni1 ** Manufacture's Guarantees min. properties: CVN 47 J at minus 60 Cen. Deg.	ABS	4Y400SA	H5** M21(80%Ar-20%CO2)	F,H,V-Up, HF	DCEP	1.2
DW-Z1S	ABS	2YSA	H10 C1	All	DCEP	1.2
MX-100	ABS	2YSA	C1	F	DCEP	1.2-2.0
MX-100T	ABS	3YSA	H5 C1	All	DCEP	1.2-1.4

TO BE CONTINUED

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.



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TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/POLARITY	SIZE (mm)
MX-100E	ABS	3YSA, 3Y400SA	C1	F, H	DCEP	1.2-2.0
MX-100ER	ABS	3Y400SA H5	C1	F, H, HF	DCEP	1.2
MX-200KP	ABS	2YSA, 2Y400SA H5	C1	HF	DCEP	1.2-1.6
MX-200KP(X2)	ABS	2YA, 2Y400A H5	C1	HF	DCEP	1.4-1.6
MX-55LF	ABS	3YSA**	C1	F, H(Fillet only)	DCEP	1.2-1.4
** Manufacture's Guarantees min. properties: CVN 34 J at minus 60 Cen. Deg.						
MX-55LF(X2)	ABS	3YA**	C1	F, HF	DCEP	1.6
** Manufacture's Guarantees min. properties: CVN 27 J at minus 60 Cen. Deg.						
MX-A80L	ABS	5YQ690SA H5	M21(80%Ar-20%CO2)	F, H, HF	DCEP	1.2 (0.045")
MX-A100	ABS	4YSA H5	M21(80%Ar-20%CO2)	F,V-Down, HF	DCEP	1.2-1.6
MX-Z210	ABS	2YSA H5	C1	F, HF	DCEP	1.2-1.4



 T. OKAMOTO, SURVEYOR

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