



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 075277-3700098-001_____

Report No.: KO3700098_____

Port of: KOBE, JAPAN_____

Date: 01 NOVEMBER 2019_____

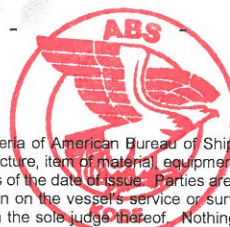
THIS IS TO CERTIFY

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 19TH DAY OF JULY, 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 SHIELDED METAL ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
BL-76	AWS A5.1-04	E7016	-	-	-	2.6 - 6.0 mm
LB-26	ABS	3 (H15)	-	All F	AC/DCEP AC/DCEP	2.6 - 5.0 6.0
LB-52T	ABS	3Y, 3Y400 (H10)	-	F, H, OH, V-Down	AC	3.2 - 4.0
LB-106	AWS A5.5-96	E10016-G	-	-	-	2.6-6.0
LB-460L	ABS	5YQ460 (H5)* 5YQ460 (H5)*	- -	F, H, HF V-Up, OH	AC/DCEP AC/DCEP	2.6-5.0 2.6-4.0
* Manufacturer's guaranteed min. properties: CVN 57 Joule at minus 20 Cen. Deg.						
LB-52NS	ABS	3Y, 4Y400 (H10)* 3Y, 4Y400 (H10)*	- -	All F	AC/DCEP AC/DCEP	2.6-5.0 6.0
* Manufacturer's guaranteed min. properties: CVN 34 Joule at minus 60 Cen. Deg.						
LB-55NS	ABS	5YQ420 (H5)	-	All, H-Fillet	AC/DCEP	2.6-5.0
NB-A52V	ABS	3Y (H10)*	-	F, V-Down	AC/DCEP	3.2-5.5
* Manufacturer's guaranteed min. properties: CVN 34 Joule at minus 60 Cen. Deg.						
NC-36L	AWS A5.4-92	E316L-16	-	-	-	2.6-5.0
NC-38	AWS A5.4-92	E308-16	-	-	-	1.6-5.0

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
NC-38LT	AWS A5.4	E308L-16	-	F, H	AC/DEP	2.6-5.0 mm
	AWS A5.4	E308L-16	-	V-Up, OH	AC/DEP	2.6-4.0
NC-39L	AWS A5.4	E309L-16	-	F	AC/DCEP	2.6-5.0
	AWS A5.4	E309L-16	-	V-Up, OH	AC/DCEP	2.6-4.0
NC-39MoL	**	**	-	All	AC/DCEP	2.6-4.0
	**	**	-	F	AC/DCEP	5.0

** Manufacturer's guaranteed min. properties: T.S. 570 N/mm2, El. 30%, Chemical Analysis max (%): C:0.04, Ni:12-14, Cr:22-25 Mo:2-3, P:0.04, S: 0.03, Mn:2.5, Si:0.9


 T. OKAMOTO, SURVEYOR 

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