



WELDING CONSUMABLE MARKETING CERTIFICATE

Certificate No.: 23-5704582

Report No.: 5704582

Port of: Houston

Date: 17 May 2023

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY WASHINGTON ALLOYS CO., ATTEND THEIR FACILITY AT 11723 Cutten Rd. Houston, TX , ON THE 1st DAY OF March 2023, AND SUBSEQUENT DATES, IN ORDER TO CARRY OUT A SURVEY OF FACILITIES AND ASSOCIATED HANDLING/ STORAGE CONTROL PROCEDURES IN ACCORDANCE WITH ABS PROCESS FOR APPROVAL OF FIRMS MARKETING WELDING CONSUMABLES AND,

THAT THE FACILITY OF THE ELECTRODE MANUFACTURER SUPPLYING THE MARKETING COMPANY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT BASED ON CERTIFICATION TESTS WITNESSED BY ABS CONFIRMED AT THIS TIME, AND THAT EACH WELDING CONSUMABLE LISTED BELOW IS CONSIDERED 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>BRAND NAME (OEM)</u>	<u>SPECIFICATION</u>	<u>GRADE OR CLASS</u>	<u>SHIELDING GAS</u>	<u>POSITION</u>	<u>CURRENT/ POLARITY</u>	<u>SIZE</u>
E6010	AWS A5.1	E6010	N/A	ALL	DCEP	2.6-5.0 mm
E6011	AWS A5.1	E6011	N/A	ALL	AC, DCEP	2.6-5.0 mm
E7018	AWS A5.1	3Y/E7018	N/A	ALL	AC, DCEP	2.6-5.0 mm
E7018HR	AWS A5.1	3Y H5/E7018HR	N/A	ALL	AC, DCEP	2.6-5.0 mm
E309LT1-1/4	A5.22	E309LT1-1	100% CO2/ Argon/CO2	ALL, V- Down	DCEP	1.2-1.6 mm
E308LT1-1/4	A5.22	E308LT1-1	100% CO2/ Argon/CO2	ALL, V- Down	DCEP	1.2-1.6 mm
E316LT1-1/4	5.22	E316LT1-1	100% CO2/ Argon/CO2	ALL, V- Down	DCEP	1.2-1.6 mm
Premium 70C- 6M H4	ABS	3YSA H5	75% Ar +25%CO2	Flt/Horizontal	DC+	1.2-1.6 mm
Premium 70C- 6M H4	ABS	3YSA H5	90% Ar +10%CO2	Flt/Horizontal	DC+	1.2-1.6 mm
Eagle-Strike 7018+	A5.1	4Y H5/E7018- 1	N/A	ALL	AC/DCEP	2.6-5.0 mm
E308L-16	AWS A5.4	E308L-16	N/A	ALL	AC/DCEP	1.6-4. 8mm
E309L-16	AWS A5.4	E309L-16	N/A	ALL	AC/DCEP	1.6-4. 8mm
E316L-16	AWS A5.4	E316L-16	N/A	ALL	AC/DCEP	1.6-4. 8mm
ER5356	EN ISO 18273	5356	Ar, Ar-He	ALL	AC/DC	0.8-4.0 mm
ER5183	EN ISO 18273	5183	Ar, Ar-He	ALL	AC/DC	0.8-4.0 mm

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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