



# WELDING CONSUMABLE MARKETING CERTIFICATE

Certificate No.: 594722-3421911-003

Report No.: KS3421911-A

Port of: Kaohsiung, Taiwan

Date: 05 December 2017

## THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY "TIEN TAI ELECTRODE CO., LTD.", ATTEND THEIR FACILITY AT TAINAN, ON THE 5TH DAY OF DECEMBER 2017, 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 GAS METAL ARC WELDING INCLUDING MIG/TIG WELDING SECTION:

BRAND NAME (OEM)	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
HOBART 308/308L	AWS A5.9 - 2012	ER308L	Ar	All	DCEN	0.9 ~ 4.0
HOBART 309/309L	AWS A5.9 - 2012	ER309L	Ar	All	DCEN	0.9 ~ 4.0
HOBART 316/316L**	AWS A5.9 - 2012	ER316L	Ar	All	DCEN	0.9 ~ 4.0
HOBART 308/308L	AWS A5.9 - 2012	ER308L	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6
HOBART 309/309L	AWS A5.9 - 2012	ER309L	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6
HOBART 316/316L	AWS A5.9 - 2012	ER316L	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6
HOBART 308L HISIL	AWS A5.9 - 2012	ER308LSi	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6
HOBART 309L HISIL	AWS A5.9 - 2012	ER309LSi	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6
HOBART 316L HISIL	AWS A5.9 - 2012	ER316LSi	98%Ar + 2%O2	All	DCEP	0.8 ~ 1.6

\*\*Manufacturer's guaranteed min. property: CNV 60J @ -196 Degree Celsius.

The signature is written in black ink over a horizontal line. To the right of the signature is a red circular stamp containing the ABS logo and the word 'KAOHSIUNG' at the bottom.

HO-CHUN PAN, 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.