



# WELDING CONSUMABLE CERTIFICATE

Certificate No.: 727977-5200554-002\_\_\_\_\_

Report No.: 5200554\_\_\_\_\_

Port of: ULSAN, KOREA\_\_\_\_\_

Date: 21 September 2022\_\_\_\_\_

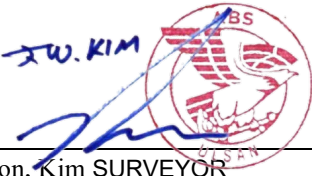
## THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF CHOSUN WELDING CO., LTD., ATTEND THEIR PLANT AT ULSAN, KOREA, ON THE 24TH DAY OF MARCH, 2022 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:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/POLARITY	SIZE
UC36 x CA502	ABS	2YTM	-	F	AC/DC(+)	2.4~6.4
UC36 x CA502	AWS A5.17	F7A(P)0-EH14	-	F	AC/DC(+)	2.4~6.4
UC36 x CA502H	ABS	2YT, 3YM	-	F	AC/DC(+)	2.4~6.4
UC36 x CA502H	AWS A5.17	F7A(P)2-EH14	-	F	AC/DC(+)	2.4~6.4
UC36 x CA508	ABS	4YT, 5Y400MH5	-	F	AC/DC(+)	2.4~6.4
(Suitable for Tandem Arc Welding)						
UC36 X CA508	AWS A5.17	F7A(P)8-EH14	-	F	AC/DC(+)	2.4~6.4
UC36 x CA506S	ABS	3Y400T, 4Y400M	-	F	AC/DC(+)	2.4~4.8
UC43 x CA514	ABS	3TM, 3YTM	-	F	AC/DC(+)	2.4~6.4
UC43 x CA514	AWS A5.17	F7A(P)4-EL8	-	F	AC/DC(+)	2.4~6.4
UC12K x CA522	ABS	3YTM	-	F	AC/DC(+)	2.4~4.8
UC12K x CA526	ABS	3TM, 3YTM	-	F	AC/DC(+)	2.4~6.4
UC12K x CA526	AWS A5.17	F7A(P)6-EM12K	-	F	AC/DC(+)	2.4~6.4
UC308L x CA101S	AWS A5.9	ER308L	-	F	DC(+)	1.6~4.8
(Manufacturer's guarantee: 520MPa min. TS, 35% min. Elongation, CVN 34J min. at -196°C)						
UC316L x CA101S	AWS A5.9	ER316L	-	F	DC(+)	1.6~4.8
(Manufacturer's guarantee: 490MPa min. TS, 30% min. Elongation, CVN 34J min. at -196°C)						
UC-36 X CA-50HR X WG-1 X CBM-G22	ABS	3Y	-	F	AC/DC(+)	2.4~4.8
(UC-36: Wire, CA-50HR: Flux, WG-1:Cut wire, CSI-1: Metal Power, CBM-G22: Backing Material)						
UC-36 X CA-50HR X CSI-1 X CBM-G22	ABS	3Y	-	F	AC/DC(+)	2.4~4.8
(UC-36: Wire, CA-50HR: Flux, WG-1:Cut wire, CSI-1: Metal Power, CBM-G22: Backing Material)						

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.

*J.W. KIM*  
  
\_\_\_\_\_  
Jin-Won, Kim 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.