

COPY



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 083238-6336797-002_____

Report No.: 6336797_____

Port of: Nagasaki, Japan_____

Date: 21 June 2024_____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF NIPPON STEEL WELDING & ENGINEERING CO., LTD, ATTEND THE PLANT AT HIKARI, JAPAN, ON THE 19TH DAY OF APRIL, 2024 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 (mm)
SF-316L	-	Mfr's*1	CO ²	F, H, V F, H	DCEP	0.9 - 1.2 1.6
*1: Mfr's guaranteed Min. properties: T.S 510 N/mm ² , Y.P 205 N/mm ² , EL 35%, CVN 27J at -20°C. Chemical Composition Max(%): C 0.04, Si 1.0, Mn 0.5-2.5, P 0.04, S 0.03, Cr 17.0-20.0, Ni 11.0-14.0, Mo 2.0-3.0						
SF-309MoL	-	Mfr's*2	CO ²	F, H, V F, H	DCEP	0.9 - 1.2 1.6
*2: Mfr's guaranteed Min. properties: T.S 510 N/mm ² , Y.P 205 N/mm ² , EL 20%, CVN 27J at -20°C. Chemical Composition Max(%): C 0.04, Si 1.0, Mn 0.5-2.5, P 0.04, S 0.03, Cr 22.0-25.0, Ni 12.0-14.0, Mo 2.0-3.0						
SF-1-EX	ABS	2Y SA H5	CO ²	ALL, Vd	DCEP	1.2 - 1.6
SM-1F-EX	ABS	2Y SA H5	CO ²	F, H	DCEP	1.2 - 1.6
SF-1E	ABS	3Y400 SA H5	CO ²	ALL, Vd	DCEP	1.0 - 1.4

Note: F-Flat(1G) / H-Horizontal(2G) / Vu-Vertical Upward(3G-u)
Vd-Vertical Down(3G-d) / O-Overhead(4G) / All-F,H,Vu & O

Kobayashi Eiji
Kobayashi, Eiji, SURVEYOR



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