

COPY



## WELDING CONSUMABLE CERTIFICATE

Certificate No.: 083238-6420218-003\_\_\_\_\_

Report No.: 6420218\_\_\_\_\_

Port of: Nagasaki, Japan\_\_\_\_\_

Date: 06 September 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 21ST DAY OF JUNE, 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:

<u>TRADE NAME</u>	<u>SPECIFICATION</u>	<u>GRADE OR CLASS</u>	<u>SHIELDING GAS</u>	<u>POSITION</u>	<u>CURRENT/ POLARITY</u>	<u>SIZE</u> (mm)
SF-1	ABS	2YSA H5	CO2	All, Vd	DCEP	1.0 - 1.6
SF-1	ABS	2Y400SA H5	CO2	All, Vd	DCEP	1.2 - 1.6
SF-3	ABS	3YSA H5 3Y400SA H5	CO2	All, Vd	DCEP	1.2 - 1.6
SF-3Y	ABS	3Y400SA H5	CO2	All, Vd	DCEP	1.2 - 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

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	SHILDING GAS	POSITION	CURRENT / POLARITY	SIZE (mm)
SF-36E	ABS	3YSA H5*5	CO2	All, Vd	DCEP	1.2 - 1.4
*5: CVN 34J at -60°C						
SF-3E	ABS	4YQ420SA H5	CO2	All	DCEP	1.2 - 1.6
SF-3A	ABS	3YSA H5	80%Ar/20%CO 2	All	DCEP	1.2 - 1.6
SF-3AM	ABS	5YQ460SA H5	80%Ar/20%CO 2	All	DCEP	1.2 - 1.6

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 / SURVEYOR



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