



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 083254-3686712-002	
Report No.: YO3686712	
Port of Kanto (Yokohama), Japan	
Date: 07 August 2019	

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF NIPPON STEEL WELDING & ENGINEERING CO.,LTD, ATTEND THEIR PLANT AT NARASHINO-CITY, CHIBA PREF., JAPAN, ON THE 18TH DAY OF JUNE, 2019 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 <u>NAME</u> SF-1 · EX SF-1	SPECIFICATION ABS ABS	GRADE OR CLASS 2YSA H5 2YSA,	SHIELDING <u>GAS</u> CO2 (FC) CO2 (FC)	POSITION All, V-down	CURRENT/ POLARITY DCEP	<u>SIZE</u> 1.2-1.6 mm
SM-1 SF-1F • EX	ABS ABS	2Y400SA H5 2YSA H10 2YSA H5	CO2(FC) CO2 (FC)	All, V-down F, H F	DCEP DCEP	1.2-1.6 mm
SM-1F SM-1F (x2)	ABS ABS	2YSA, 2Y400SA H5 2YA, 2Y400A	CO2(FC) CO2(FC)	F HF	DCEP	1.2-1.6 mm 1.2-1.6 mm
	ABS facturer's guaranteed Min. (3YSA H5*	CO2(FC)	All	DCEP DCEP	1.6 mm 1.2-1.4 mm
SF-36F *Manuf SF-3AM	ABS facturer's guaranteed Min. C		–	F	DCEP	1.2-1.4 mm
SM-3EF (x2)	ABS ABS	5YQ460SA H5 3Y400A	80%Ar- 20%CO2 (FC) CO2 (FC)	All HF**	DCEP DCEP	1.2-1.6 mm
**Only SM-47A	for tandem fillet welding. ABS	5YQ460SA	80%Ar-	All	DCEP	1.6 mm 1.2 mm
SF55RS	ABS	H5 2YSA H5	20%CO2 (FC) CO2 (FC)	F, V, H	DCEP	1.2 mm

Kenji Iwano, SURVEYOR

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 rules of the structure, item of material, equipment, machinery or any other item covered by the Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by the Certificate 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 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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