

COPY



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 083238-6336797-001_____

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 SHIELDED METAL 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)
S-16	ABS	3Y	-	ALL F	AC/DCEP	2.6 - 5.0 5.5 - 6.0
L-55SN	ABS	3Y H5*1	-	ALL	AC/DCEP	2.6 - 5.0
*1: Mfr's guarantee Min. properties CVN 69J at -60°C						
L-F80	ABS	5YQ460 H5	-	ALL	AC/DCEP	3.2 - 4.0
L-80	AWS A5.5	E11016-G*2	-	ALL F	AC/DCEP	3.2 - 4.0 5.0 - 6.0
*2: Mfr's guarantee Min. properties CVN 34J at -40°C						
L-47E	ABS	3Y400 H10*3	-	F, Vu	AC/DCEP	3.2 - 5.0
*3: Mfr's guarantee Min. properties Y.P.: 460 N/sq.mm Min. T.S.: 570-720 N/sq.mm, El.: 20% Min., CVN 64J Min. At -20°C.						
L-55-PX	ABS	3Y400 H10	-	ALL	AC/DCEP	2.6 - 5.0
L-55-GP	ABS	3Y H10	-	ALL	AC/DCEP	2.6 - 5.0

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



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.