



ABS

WELDING CONSUMABLE CERTIFICATE

Certificate No.: 607228-2794971-004

Report No.: C2794971

Port of: CLEVELAND, OHIO

Date: 09 JANUARY 2015

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF HOBART BROTHERS CO-TUBULAR WIRE BUSINESS, ATTEND THEIR PLANT AT TROY AND PIQUA, OHIO, ON THE 22ND DAY OF APRIL, 2014 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 GAS METAL ARC WELDING AND FLUX CORED ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
<u>HOBART BROTHERS-McKAY BRAND</u>						
Speed Alloy 81Ni2-V	ABS **	3YSA	100%CO2	ALL	DCEP	.035"-1/16"
	**Manufacturer's guaranteed CVN 20ft-lbs.at -50F, tensile strength 80-100 ksi.					
Speed Alloy 71V	ABS	2YSA	75%Ar-25%CO2	ALL	DCEP	.035"-1/16"
Speed Alloy 71V	ABS	2YSA	100%CO2	ALL	DCEP	.035"-1/16"
Speed Alloy 111-V	AWS A5.29**	E111T1-K3C	100%CO2	ALL	DCEP	.045"-1/16"
	**Manufacturer's guaranteed CVN 27J at -40C					
Radnor E71T-1M	ABS	3YSA H5	75%Ar-25%CO2	ALL	DCEP	.035"-1/16"
Radnor McKay	AWS A5.20	E70T-1C	100%CO2	F	DCEP	.045"-3/32"
Speed-Alloy 70						
Radnor McKay	ABS	2YSA	75%Ar-25%CO2	ALL	DCEP	.045"-1/16"
Speed-Alloy 71A						
Radnor McKay	ABS	2YSA	100%CO2	ALL	DCEP	.045"-1/16"
Speed-Alloy 71A						
Radnor McKay	ABS**	3YSA	80%AR-20%CO2	F	DCEP	.035"-1/16"
Speed-Cor 6						

**Manufacturer's guaranteed CVN 34J at -40C



Keith Grant
Keith Grant 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.