

Certificate of Conformance to Requirements for Welding Electrode

Product Type: Quantum Arc 6

Classification: ER70S-6

Specifications: AWS A5.18/A5.18M; ASME SFA 5.18

Diameter Tested: .045"

Date Tested: 7/25/2024

Date Generated: 9/25/2024

This is to certify that the product named above and supplied on the referenced order number is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was concluded on the date shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied by the Quality System Program of Hobart Brothers, which meets the requirements of ISO 9001, ANSI/AWS A5.01, and other specification and Military requirements, as applicable. This document supplies actual test results of non-specific inspection in conformance with the requirements of EN 10204, type 2.2 certification.

with the requirements of EA 1020-7, type 2.2 certaineaton.																									
Test Settings																									
Shielding Medium		Amps / Polarity		Vol	ts i	WFS in/min(m/min			ESO in(mm)			m) Preheat F(C)				Interpass F(C)				;)	Travel Speed in/min(cm/min)				
C1 (100% CO2)		300 / DCEP		30	_	445 (11.3)			1/2 (13)			Room Temp				0	300(149)				_	12 (30.5)			
Mechanical Properties - Tensile																									
Shieldi	Shielding Medium		Ref. No.		Testing Conditions				Ult. Tensile Strength psi (M				a) Yield Strengt					gth psi (MPa)				Elong.% in 2"			
C1 (100% CO2)		PE8403		As Welded					78,000 (541)					65,000 ((446)				29			
Mechanical Properties - Impact																									
Shielding Medium		Ref. No. Te		Testing (esting Conditions			Temp. F (C)			Individuals f				t.lb.(J)				Avg. ft.lb.(J)				Туре		
C1 (100% CO2)		PE8403		As V	/elded		-20 ((-29)		83,81,8	,110,115)				83 (113)				Charpy-V-Notch						
Ref.No.		Fillet Weld Test																							
PE8403	03 Conforms				Horizontal :					Overhead					1:				Vertical				l :		
						Che	mic	al Ar	ıalysi	s															
Shielding M	ledium / Ref. No	CombC	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	Al	Ti	Nb	Со	вν	V Sr	Fe	Sb	N	Mg	Zn B	e S	b As	
NONE / CF06822		0.10	1.43	0.008	0.010	0.82	0.1	0.02	< .01	0.01	< .01														

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James A. Owens, Q.A. Specialist

Certification and Limited Warranty - Data for the above supplied product are those obtained when welded and tested in accordance with the above specification. All tests for the above classification were satisfied. Other tests and procedures may produce different results.