

Certificate of Conformance to Requirements for Welding Electrode

Product Type: **Quantum Arc 3**

ER70S-3 Classification:

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

Diameter Tested: .045

Date Tested: 11/1/2022 Date Generated: 1/24/2023

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.

							lest	Setti	ngs															
Shieldin	Shielding Medium		Amps / Polarity		Volts WFS in/min(m/min			1)	ESO in(mm)			ı	Preheat F(C)				Interpass F(C)				Travel Speed in/min(cm/min)			- 1
C1 (10	275 / DCEP		>	29	420 (10.7)			3/4 (19)			Room Temp					300(149)				14 (35.6)			\neg	
	,				Mec	hani	cal P	rope	rties -	Ten	sile													
Shielding Medium		Ref. No.		1	Testing Conditions			Ult.	Ult. Tensile Strength psi (MPa					Pa) Yield Strength				th psi (MPa)				Elong.% in 2"		
C1 (10	00% CO2)	PE	5036		As W	'elded			74,	000 (512)				62,00	00 (4:	25)				2	28		
Mechanical Properties - Impact																								
Shielding Medium		Ref. No.		Testing Conditions				Temp.	Temp. F (C) Individuals					ft.lb.(J) Avg. ft.lb.(t.lb.(J)	Туре				
C1 (100% CO2)		PE5036		As	As Welded			0 (-	-18)	3) 125,96,93 (169,130,126)					105 (142)					Charpy-V-Not			tch	
Ref.No. Radiographic Inspection					Fillet Weld Test																			
PE5036 Conforms					Horizontal :						Overhead :						Vertical :				i:			
						Ch	emic	al Aı	nalysi	S														
Shielding M	/ledium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI T	i Nt	Co	BW	Sn	Fe	Sb	N	Mg	Zn E	Зе	Sb .	As
NONE	/ CD92258	0.05	1.19	0.013	0.008	0.59	0.14	0.02	< .01	0.01	0.01				П				П					

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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.