

Certificate of Conformance to Requirements for Welding Electrode

Product Type: Quantum Arc D2
Classification: ER80S-D; ER90S-G

Specifications: AWS A5.28/A5.28M; ASME SFA 5.28

Diameter Tested: .045

Date Tested: 12/8/2022

Date Generated: 1/19/2023

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.

Test Settings

						T	est S	etting	gs																	
Shieldin	ng Medium	Amps / F	Polarity	Vo	lts i	WF in/min(m	_		ES	O in(m	ım)		F	Prehe	eat F	(C)		In	terpa	ass I	F(C	;)			Spee m/mi	- 1
C1 (10	0% CO2)	300 / DCEP		3	0	460 (1	1.7)	3/4 (19)) 300(149)						300(149)					14.2 (36.1)				
Mechanical Properties - Tensile																										
Shielding Medium		Ref.	No.	Testing Conditions				Ult. Tensile Strength psi ((MPa) Yield Strengt					gth	jth psi (MPa)				Elong.% in 2"			
C1 (100% CO2)		PE5	176	Ag	jed 48 H	48 Hrs 220F			94,000 (651)					77,000 () (532)				24			\Box
Mechanical Properties - Impact																										
Shielding Medium		Ref. No.		Testing	Condition	ons	Te	Temp. F (C) Individua					dua	als ft.lb.(J)				Α	Avg. ft.lb.(J)				Туре			\Box
C1 (100% CO2)		PE5176		As Welded				-20 (-29) 41,43,45 (56,58						8,61	61) 43 (58)						Charpy-V-Not			tch		
Ref.No.	Fillet Weld Test																									
PE5237	PE5237 Conforms				Horiz	zontal :		Overhead :								Vertical :										
Chemical Analysis																										
Shielding N	Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	ΑI	Ti	Nb	Со	В	W	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As
NONE / CD91995 0		0.03	1.60	0.010	0.010	0.69	0.23	0.06		0.04	0.40															

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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.