

## Certificate of Conformance to Requirements for Welding Electrode

Product Type:	HOBART 14A
Classification:	E7014
Specifications:	AWS A5.1/A5.1M; ASME SFA 5.1
Diameter Tested:	5/32" - 3/16"
Date Tested:	3/28/2024
Date Generated:	4/18/2024

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.

## MADE IN THE U.S. OF U.S. AND IMPORTED MATERIALS.

						1	est :	Setting	js																		
Size		Polarity					Amps			Volts				Preheat F(0				C) Interpass F(C)									
5/32X14 in			AC					170		24				225 (107)				350 (177)									
3/16X14 in				AC				210	28					225 (107)				7) 350 (177)									
3/16X14 in			D	CEN				210			28				300F				0F ()				350F ()				
5/32X14 in			D	CEN				170			24				350 (177				<sup>′</sup> ) 350					350 (177)			
					Med	hanica	al Pr	operti	es - Te	nsile										<u> </u>							
Size / Polarity	Ref. No.	D. Testing Conditions				Ult. Tensile Strength psi(MPa)					Yield Strength psi(MPa)						Elong.% in 2"										
3/16X14 in / AC	PE7787	Aged 48 Hrs 220F				74,000 ( 514 )					63,000 ( 437 )						24										
3/16X14 in / DCEN	PE7788	Aged 48 Hrs 220F				74,000 ( 512 )					65,000 ( 449 )						25										
5/32X14 in / AC	5/32X14 in / AC PE7783 Aged 48 Hrs 2					76,000 ( 521 )					67,000 ( 463 )						26										
5/32X14 in / DCEN	5/32X14 in / DCEN PE7797 Aged 48 Hrs 220F					75,000 ( 518 )					66,000 ( 455 )					T	28										
Size / Polarity																											
5/32X14 in / AC PE7783 Conforms							Horizontal :					Overhead : Conforms											onforms				
3/16X14 in / AC						Horizontal : Conforms					Overhead :							Vertical :									
	3/16X14 in / DCEN PE7788 Conforms					Horizontal : Conforms						Overhead :						Vertical :									
5/32X14 in / DCEN PE7797 Conforms							onta			Overhead : Conforms							s Vertical : Conforms										
-						Che	mic	al Ana	lysis	3																	
Size / Polarity / F	Ref. No.	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Mo	AI	Ti N	b C	эΒ	W	Sn	Fe	Sb	Ν	Mg	Zn	Be	Sb	As		
5/32X14 in / AC /	PE7783	0.082	0.58	0.011	0.010	0.32		0.02	0.02	0.02	0.02																
3/16X14 in / AC /	PE7787	0.067	0.54	0.012	0.009	0.35		0.02	0.02	0.02	0.01																
3/16X14 in / DCEN	/ PE7788	0.069	0.51	0.013	0.009	0.32		0.02	0.02	0.02	0.01																
5/32X14 in / DCEN	CEN / PE7797 0.061 0.45 0.013					0.25		0.02	0.02	0.02	0.02																

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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.