

Certificate of Conformance to Requirements for Welding Electrode

Product Type: **HOBART 18AC**

Classification: E7018 H8

Specifications: AWS A5.1/A5.1M; ASME SFA 5.1

Diameter Tested: 1/8"; 5/32" Date Tested: 3/11/2021 Date Generated: 3/15/2021

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.

MADE IN THE U.S. O	F U.S. AND IM	PORTED	MATE	RIALS.			Tool	Settin																			
Size				Polarity					s	Volts				Prehe					F(C))	Т	Interpass F(C)					
1/8X14 in			AC					140	-	26				225°F ()						300°F ()							
1/8X14 in				DCEP					130			26				225°F ()					+	300°F ()					
5/32X14 in				AC				180			26				225 (107)						300°F ()						
5/32X14 in			DCEP				170			26				225°F ()					300°F ()								
5/32/14 111				JUEF	Ma	chanie	nal D	ropert		oneilo							22	3 F	0		_			J F (,		
Size / Polarity	Ref. No.	Tes	tina Ca	onditions				rength		-	Yield	Str	end	th ns	i(MI		Т				Flo	ong.%	in 2			_	
1/8X14 in / AC	PE1744	_	As We					00 (622)			78,000 (53								29						_		
1/8X14 in / DCEP		As Welded				86,000 (596				l l				2,000 (500)				29									
	_				81,000 (560)				71,000 (4				`	· ·										_			
5/32X14 in / AC	PE1746 PE1747		As We		_	<u> </u>								` '					28								
5/32X14 in / DCEP	710 1101000					00 (557) 70, Properties - Impact					,000 (485)						29										
					_			_	_					_							$\overline{}$						
Size / Polarity	Ref. No.	Tes		onditions		Test Temp. F(C)				Individuals ft.lb.				1.7				je ft.lb.(J)			╀	Туре					
1/8X14 in / AC	PE1744		As We	lded		-20 F (-29 C)				32,34,6	46,8	35)	53 (72))	Charpy-V-Notch					1				
1/8X14 in / DCEP	PE1745		As We		-20 F (-29 C)				64,56,61 (87,76,83)					60 (82)					Charpy-V-Notch								
5/32X14 in / AC	PE1746		As We	lded		-20 F (-29 C)				77,75,72 (104,10				2,98) 75 (101)				Charpy-V-Notch					
5/32X14 in / DCEP	PE1747		As We	lded		-20 F (-29 C)				33,72,68 (45,98,92)					58 (78)				Т	Charpy-V-Notch							
Size / Polarity	Ref. No.	F	Radiog	raph	1				Fillet We													_					
1/8X14 in / AC	PE1744	Confor				Horizont										: Conforms				Vertical : Conforms							
1/8X14 in / DCEP	PE1745	Confori					zont						rhead : Conforms								Vertical : Conforms						
5/32X14 in / AC 5/32X14 in / DCEP	PE1746 PE1747	Confor			_		zont	ntal:							l : Conforms l : Conforms				+	Vertical : Conforms Vertical : Conforms							
5/32X 14 III / DCEP	PE1747	Confor	TIS .					ai:[cal Ana	alveie			ΟV	erne	eau :	Cor	HOIT	ns					ertica	1 : [C	<u>JUIOL</u>	ms	—	
Size / Polarity /	Ref. No.	С	Mn	Р	s	Si	Cu		V	Ni	Мо	Ai	Til	Nb	Col	вГи	νIs	Sn	Fe	Sb	ĪΝ	Mg	Zn	Ве	Sb	As	
5/32X14 in / AC		0.04	0.97	0.009	0.019	0.23		0.03	0.02	0.02	0.01	Н	H			+	+				╆	٣	H	Н			
5/32X14 in / DCEF	0.05	1.00	0.008	0.017	0.27		0.03	0.02	0.01	0.01	Н	Н		_	+	+	_		Ι-	t			Н		Г		
1/8X14 in / AC / PE1744		0.05	1.16	0.010	0.012	0.48		0.05	0.02	0.06	0.01		Н	7	\neg	+	+	7			t		Н	М		Г	
1/8X14 in / DCEP / PE1745		0.05	1.20	0.009	0.014	0.49		0.05	0.02	0.06	0.01	П	Н			+	†				T		М			Г	
5/32X14 in / CD72171 Total H2O Met						od : Train - As Received							Total Coating Moisture : 0.145														
1/8X14 in	Total I	120 Mei	ceived		Total Coating Mois						istu	ture : 0.218															
1/8X14 in / PE1745 Total H2O Method : Train - As Received Total Coating Moisture : 0.218 Diffusible Hydrogen Collected per AWS A4.3																											
		3	3.3 ml/	100g of			_						hu	midi	ty						_					_	
		4	.0 ml/1	00g of v	weld me	tal for	5/32	2X14 in	diam	eter 2	2% rela	ativ	e hı	ımid	ity											_	

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 telesification were satisfied. Other tests and procedures may produce different results.	he above