

## Certificate of Conformance to Requirements for Welding Electrode

Product Type: HOBALLOY 11018M

Classification: E11018M H4R

Specifications: AWS A5.5/A5.5M; ASME SFA 5.5

 Diameter Tested:
 5/32" 3/16"

 Date Tested:
 9/11/2023

 Date Generated:
 9/12/2023

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.

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

MADE IN THE U.S. OI						T	est	Setting	js																	
Size			Polarity							;	Preh				neat F(C)				Interpass F(C)							
5/32X14 in				DCEP				170			24 - 2	6	25				50F ()				250F ()					
3/16X14 in				DCEP				225			23		225F				5F () 250F (					)				
	,				Med	chanica	al Pr	operti	es - Te	nsile																
Size / Polarity	Ref. No.	sting C	onditions	Ult.				Strength psi(MPa)			Yield Strength p				· ,				Elong.% in 2"							
3/16X14 in / DCEP	PE6907	A	ged 48 I	rs 220F		115,0			)		10	07,000	0 ( 738 )				23									
5/32X14 in / DCEP	DCEP PE6868 Ag			Irs 220F		116,000 ( 800 )					10	07,000	7,000 ( 738 )				23									
					Med	chanic	al Pr	operti	es - Im	pact										_						
Size / Polarity	Ref. No.	Testing Conditions			Te	Test Temp. F(C)				Individuals ft.lb.			(J) Averag				e ft.lb.(J)				Туре					
5/32X14 in / DCEP	PE6868		As We	elded		-60 F (-51 C)			36,41,37 (4			7 (49,56,50)			38 ( 52 )					Charpy-V-Notch					า	
3/16X14 in / DCEP	PE6907		As We	elded		-60 F (-51 C)			72	,60,65	1,88)		66 (89)					Charpy-V-Notch					า			
Size / Polarity	Ref. No.		Radio	raph							Fillet Weld Test															
3/16X14 in / DCEP 5/32X14 in / DCEP	PE6907 PE6868	Conf		Horizor Horizor									Overhead : Overhead : Conforms					Vertical : Conforms					_			
3/32X14 III / DCEP	PE0000	Com	onns .					ı . al Ana	lvsis			Overri	eau .	COI	ПОП	15				ve	ruca	u . jc	OIIIO	.1115		
Size / Polarity / Ref. No.		С	Mn	Р	s	Si	Cu	Cr	٧	Ni	Мо	Al Ti	Nb	Со	ВΙ	<b>N</b> :	Sn	Fe	Sb	N	Mg	Zr	n Be	Sb	As	
3/16X14 in / DCEP / CD95125		0.0	4 1.65	0.013	0.009	0.36		0.21	0.01	1.81	0.32		T		П	1		$\neg$		П		T		Г		
5/32X14 in / DCEP / CD97702		0.0	4 1.45	0.015	0.009	0.24		0.16	0.01	1.74	0.30				П					П		T		П	Г	
5/32X14 in / DCEP / PE6868		0.0	4 1.73	0.016	0.009	0.35		0.16	0.01	1.77	0.29				П	T				П		T			Т	
3/16X14 in / DCEP / PE6907		0.0	4 1.75	0.015	0.009	0.40		0.21	0.01	1.76	0.34				П					П		Т		П	П	
3/16X14 in	Total	Total H2O Method : Train - As Received								Total Coating Moisture : 0.043																
5/32X14 in	H2O Met	2O Method : Train - As Received							Total Coating Moisture : 0.055																	
5/32X14 ir	Total	Total H2O Method : Train - 9 Hour								Total Coating Moisture : 0.113																
3/16X14 ir									Tota	Total Coating Moisture : 0.13																
				Di	ffusible	Hydro	gen	Collec	ted pe	r AWS	A4.3							_								
			3.4 ml/	100g of v	veld met	al for 3	3/16>	(14 in	diame	ter 28	% relat	ive h	umid	ity												
			3.2 ml/	100g of v	veld met	al for 5	5/32)	(14 in	diame	ter 33	% relat	ive h	umid	ity												

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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.