

Certificate of Conformance to Requirements for Welding Electrode

Product Type: **Hobart 7018 XLM**

Classification: E7018-1 H4R

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

Diameter Tested: 5/32"-3/16" Date Tested: 9/06/2024 Date Generated: 9/23/2024

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 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. OI							Test	Setting	gs																	
Size			Polarity					Amps			Volts				Preheat F(C))	\Box	Interpass F(C)					
3/16X14 in				DCEP							25				25 (1	07)		300 (149)					_			
3/16X14 in			AC					250		25				22				07)		T	300 (149)					
5/32X14 in			AC					200		25				22				07)		T	300 (149)					
5/32X14 in				OCEP		180					25				225 (107)				Т	300 (149)						
	·				Me	chanic	al P	roperti	es - T	ensil	е			,			_			_		=	=			
Size / Polarity	Ref. No.	Tes	ting Co	nditions	Ult				Strength psi(MPa)			Yield Strength				a)		Elong.% in 2"								
5/32X14 in / AC	PE8572		As We	lded					00 (555)			66,000 (4						22								
5/32X14 in / DCEP PE8574				lded		77,000 (530								,000 (447)				29								
3/16X14 in / DCEP	PE8567	PE8567				77,000			0 (530)			63,000 (43						32								
3/16X14 in / AC	PE8571		As We	lded		81	1,000	(556)		67,000 (460))		27									
		_			_	chanic								_						_		_			_	
Size / Polarity	· · ·			Testing Conditions				Test Temp. F(C)				Individuals ft.lb.				Averag				+	Туре					
3/16X14 in / DCEP	PE8567	As We			-50 F	`		107,29,1			22 (145,39,165)			86 (117)					Charpy-V-Notch							
3/16X14 in / AC	PE8571	As Welded				-50 F	`		74,74,60 (100,100					\perp	69 (9					\bot	Charpy-V-Notch					
5/32X14 in / AC	pe8572 PE8574	As Welded				-50 F (-46 C)				73,76,51 (99,103				67 (90)						Charpy-V-Notch						
5/32X14 in / DCEP	As We			-50 F (-46 C)				129,298,298 (175,40				· · · ·						Charpy-V-Notch								
Size / Polarity 3/16X14 in / DCEP	Ref. No. PE8567									Fillet Weld Test Overhead: Vertical:												_				
3/16X14 in / AC	PE8571	Confor				Horizontal : Con								Overhead :				Vertical :						_		
5/32X14 in / AC PE8572 Confor						Horizontal : Horizontal :							Overhead : Conforms Overhead : Conforms								Vertical : Conforms Vertical : Conforms					
5/32X14 in / DCEP	PE8574	Confor	ms					वा : :al Ana	lveie			(verhe	ead :	Con	torm	S				ertica	al : C	onto	rms	_	
Size / Polarity /	Ref. No.	С	Mn	Р	S	Si	Cu	Cr	\ V	Ти	i T	Мо	Al Ti	Nb	Со	вІи	vls	ı l Fe	e I s	ыТь	I Ma	ı Tzn	Тве	Sb	Α	
5/32X14 in / DCEF		0.05	0.88	0.009	0.008	0.33	-	0.03	< .01	_	_	0.01				+	+		+	+	1	Ŧ	Ħ	 	Ė	
3/16X14 in / DCEP / PE8567		0.05	1.01	0.010	0.008	0.37		0.03	< .01	0.0)2 (0.08	\top		П	\vdash	╈	╈	\top	十	\top	+	т		r	
3/16X14 in / AC / PE8571		0.06	1.04	0.010	0.009	0.45		0.03	< .01	-	-	0.08	\top		П	\vdash	\top	\top	\top	╈	\top	+	\vdash		r	
5/32X14 in / AC / PE8572		0.05	0.88	0.009	0.008	0.36		0.04	< .01	0.0	2 (0.01	╈		П	\top	┰	\top	Ť	†	\top	\top	\vdash		Г	
5/32X14 in	Total H2O Method : Train - As Received								Total	l Coa	ting	Mois	ture	: 0.0)48	_		_	_		_					
3/16X14 ir	Total I	otal H2O Method : Train - As Received									Total Coating Moisture : 0.048 Total Coating Moisture : 0.035															
3/16X14 in / PE8571				Total H2O Method : Train - 9 Hour								Total Coating Moisture : 0.13														
5/32X14 ir	Total I	Total H2O Method : Train - 9 Hour								Total Coating Moisture : 0.16																
				Di	ffusible	Hydro	gen	Collec	ted p	er AV	VS A	44.3								_					_	
				00g of v																_						
				00g of v											_											
				00g of v											_					_						
		2	.9 ml/1	00g of v	veld me	tal for	3/16	X14 in	diame	eter 1	7%	relati	ve hu	midi	ty											

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.