

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:
 8/25/2023

 Date Generated:
 8/29/2023

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	Settin	gs																	
Size		Polarity						Amps	3		Volts					Preh	eat	F(C))	T	Interpass F(C)					
5/32X14 in		DCEP						180		25				22				07)		T	300 (149)					
3/16X14 in		DCEP				250				29				22				07)		\top	300 (149)					
5/32X14 in			AC				200			25				225				07)		十	300 (149)					
3/16X14 in			AC				250			29				22				07)		\top	325 (163)					
					М	echan	ical P	roperti	ies -	Tensile														<u> </u>		
Size / Polarity	Ref. No.	Tes	sting C	onditions	; U	Ult. Tensile Strength p				Pa)	Yield	Stre	trength psi(MPa)					Elong.% in 2"								
3/16X14 in / DCEP	PE6681		As W	elded		77,000 (5)		66,000 (45				55)				29							
3/16X14 in / AC	PE6699 As Welded					82,000 (564) 69						69,0	9,000 (476)					28								
5/32X14 in / DCEP	PE6674					-	76,000)		62,000 (43					31)				28							
5/32X14 in / AC	PE6698	+	As W									64,0	4,000 (443)					31								
5752711711177115						lechan	ical P	ropert	ies -	mpact				, ,						_						
Size / Polarity						Test Temp. F(C)				Individuals ft.lb.(J)				$\neg \Box$	Average ft.lb.(J)					Туре						
5/32X14 in / DCEP	PE6674	As Welded				-50 F (-46 C)				,297,286 (222,403,				8)	<u> </u>					Charpy-V-Notch						
3/16X14 in / DCEP	PE6681	As Welded				-50 F (-46 C)				34,127,116 (46,172				_	125			\top	Charpy-V-Notch							
5/32X14 in / AC	PE6698	1	As W		<u> </u>				16,112,118 (157,152,160				<u> </u>					Charpy-V-Notch								
3/16X14 in / AC	pe6699						, ,				79,91 (113,107,123)				84 (114)				+	Charpy-V-Notch						
Size / Polarity													.a.p,													
5/32X14 in / DCEP	onforms Horizo										Overhead : Conforms Vertical : Conforms															
3/16X14 in / DCEP					j	Horizontal : Conforms				S	Overhead :									Vertical :						
5/32X14 in / AC	PE6698	Confo						ontal :			Overhead : 0				: Conforms				Vertical : Conforms							
3/16X14 in / AC	PE6699	Confo	rms					al : Cor				Ove	erhe	ead :						Ve	ertical	:				
								cal Ana	_	_			_		_		_	_		_		_	_			
Size / Polarity /	Ref. No.	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	Al	Ti	Nb C	i o	3 W	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb		
5/32X14 in / DCEP / PE6674		0.05	0.98	0.010	0.009	0.40		0.03	< .01	0.02	0.01													Ш		
3/16X14 in / DCEP / PE6681		0.04	1.07	0.010	0.006	0.35		0.07	0.01	0.07	0.10													Ш		
5/32X14 in / AC / PE6698		0.06	0.97	0.010	0.009	0.44	П	0.03	< .01	0.02	0.01	П			Т	Т	Г	Г	Г	П				П		
3/16X14 in / AC	3/16X14 in / AC / PE6699		1.05	0.010	0.007	0.45		0.07	0.01	0.06	0.09		П			Т				\Box				П		
5/32X14 ir	n / PE6674		Total	H2O Me	thod : T	rain - A	As Red	ceived			,	T	otal	Coati	ng N	/loist	ure	: 0.0	95			,				
3/16X14 ir	n / PE6681.		Total	H2O Me	thod : T	rain - A	As Red	ceived				-		Coati	_								_			
5/32X14 ir	Total H2O Method : Train - 9 Hour									Total Coating Moisture : 0.3																
3/16X14 ir	Total H2O Method : Train - 9 Hour									Total Coating Moisture : 0.137																
3/10X14 II	171 20033		liotai		iffusib				cted	er AW	S A4.3		ota	Coati	119 1	violat	uic	. 0.1	-							
		;	3.7 ml/	100g of									hu	midity	,					_						
				100g of																_						
				100g of																_			_			
				100g of																—						

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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.