

Certificate of Conformance to Requirements for Welding Electrode

Product Type: HOBART 418

Classification: E7018, E7018-1 H4R

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

 Diameter Tested:
 5/32" - 1/4"

 Date Tested:
 3/26/2024

 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 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.

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MADE IN THE U.S. OF	r U.S. AND IN	IFORTEL	MAII	EKIALS.	•		To	est Setti	ngs	;																		
Size				Polarity					Amps			Volts				Preheat F(C)						Interpass F(C)						
5/32X14 in			DCEP					185				24-26				225 (107)						300 (149)						
5/32X14 in			AC				200				24-26				300 (149)						300 (149)							
1/4X18 in			DCEP				350				28-29				225 (107)					250 (121)								
3/16X14 in			DCEP				225			27				300 (149)					_	300 (149)								
3/16X14 in			AC					240				27				300 (149)					300 (149)							
1/4X18 in			AC				340			+	28				300 (149)					_	300 (149)							
17-7710 111				7.0	N	/lec	hanica	I Prope		: - Tei	nsile) 00	170	<u>, </u>	_		_	-	, 140	,	_		
Size / Polarity	Ref. No.	Tes	sting C	ondition				Strength				Yield	Strenc	th p	si(MF	Pa)	Т			E	long	.%	in 2"	_		_		
1/4X18 in / DCEP	PE7751	_		As Welded				000 (510)			_	60,000 (41				` '					31							
1/4X18 in / AC	PE7774	_		As Welded			79.	000 (54	00 (547)			63,000 (433				·				_	23							
5/32X14 in / DCEP	PE7722	_		As Welded					00 (503)			59,000 (407				· .				31						_		
5/32X14 in / AC	PE7726	_	As W		_				00 (519)			60,000 (417)										29						
3/16X14 in / DCEP	PE7754	_	As W		_	_		000 (505)			+	59,000 (408)					+	_		_	32							
3/16X14 in / AC	PE7770	-			_			00 (503)			+	61,000 (419				·					32							
3/16X14 In / AC	PE///0		As Welded				Mechanical Properties					· · · · · · · · · · · · · · · · · · ·						1 00										
Size / Polarity Ref. No. Testing Conditions Test Temp. F(C) Individuals ft.ll											o.(J)	(J) Average ft.lb.(J)						П	Туре									
5/32X14 in / DCEP	PE7722	_	As Welded				-50 F (-	· ,	2			0 (359,	. ,	30)	268 (363)					\dashv	Charpy-V-Notch							
5/32X14 in / AC	PE7726	_	As Welded				-50 F (-	_		_	i (141,			109 (147)					\dashv	Charpy-V-Notch								
1/4X18 in / DCEP	PE7751	_	As Welded				-50 F (-46 C)						259 (351)					\dashv	Charpy-V-Notch									
3/16X14 in / DCEP	PE7754	-	As Welded								9,274,274 (310,371,37 9,268,259 (270,363,35									\dashv	Charpy-V-Notch							
		-	As Welded				-50 F (-46 C)				22,99,90 (165,134,122				` '					\dashv	Charpy-V-Notch							
3/16X14 in / AC	PE7770	_			_							31 (58,54,42)					04 (141)				Charpy-V-Notch							
1/4X18 in / AC Size / Polarity	PE7774 Ref. No.		As Welded Radiograph			_	-50 F (-	46 C)	60) 43,40,31			1 (58,5	Fillet Weld Test				3 (52) Charpy-V-						V-IN	otcr	_			
1/4X18 in / DCEP PE7751 Conform								ontal : Conforms					Overhead :						Vertical :									
1/4X18 in / AC	PE7774	Confo				Horizontal : Con								verhead :								Vertical :						
5/32X14 in / DCEP	PE7722	Confo					Horizo								: Conforms					Vertical : Conforms								
5/32X14 in / AC 3/16X14 in / DCEP	PE7726 PE7754		Conforms Conforms				Horizontal : Horizontal : Confo				_	Overhea Overhea									Vertical : Conforms Vertical :					_		
3/16X14 in / AC PE7770 Confor					_	Horizontal : Conf					_		Overh						Н	Vertical :					_			
						_	Che	mical Aı	nalys	sis								_		_	_	_		_		_		
Size / Polarity /	Ref. No.	С	Mn	Р	S		Si C	u Cr	\ <u>\</u>	<u>۷</u>	Ni	Мо	Al Ti	Nb	Co	В۱	۷S	n F	Fe :	Sb	N	Лg	Zn	Ве	Sb	As		
5/32X14 in / DCEF	P / PE7722	0.04	1.00	0.008	0.011	(0.46	0.02	< .	.01	0.03	0.02				Ш					Ш							
5/32X14 in / AC / PE7726		0.07	0.92	0.009	0.012	2 0	0.45	0.02	<.	.01	0.02	0.02				Ш					Ш							
1/4X18 in / DCEP / PE7751		0.04	1.21	0.010	0.012	2 (0.43	0.04	<.	.01	0.06	0.02				П					\prod					Г		
1/4X18 in / AC / PE7774		0.07	1.34	0.010	0.012	2	0.50	0.04	<.	.01	0.05	0.02		П	П	П	T	T	П	\neg	П	\neg	\neg	\neg		Г		
5/32X14 ir	Total H2O Method : Train - As Received								Total Coating Moisture : 0.057																			
5/32X14 ir	Total H2O Method : Train - 9 Hour								Total Coating Moisture : 0.138																			
1/4X18 in	Total	Total H2O Method : Train - As Received								Total Coating Moisture : 0.028																		
1/4X18 in	Total	Total H2O Method : Train - 9 Hour								Total Coating Moisture : 0.133																		
								en Coll												_	_	_		_		_		
				100g of											_							_						
				100g of											<u> </u>					_								
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				/100g of																—				_				
			ა.ყ mi	/100g of	weld r	met	al for 1	/4X18 II	ı aıa	amete	er 18	⁄₀ reiat	ive nu	IMIC	iity							_						

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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.