

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: 6/14/2023 Date Generated: 6/22/2023

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

f ISO 9001, ANSI/AW with the requirements of		r specific	cation a	nd Milita	It was		ured		plied b	y the Q	uality S	Syste	m P	rogra	m of l	Toba	rt Bro	other	s, wh	ch m	eets	the r	equi		ent		
MADE IN THE U.S. O	F U.S. AND IMI	PORTED	MAT!	ERIALS.			Tes	t Settir	nas																		
Size			Polarity					est Settings Amps							Prel	heat F(C) Interpas						ss F	(C)	_			
5/32X14 in		AC					200		Volts 24-26						5 (1	. ,		300 (149)									
5/32X14 in			DCEP		185				24-26								07)		300 (149)								
3/16X14 in			AC AC		240				27										300 (149)								
3/16X14 in			DCEP		235				27								5 (107) 5 (107)				300 (149)						
1/4X18 in				340				28-29				30						300 (149)									
1/4X18 in			DCEP AC				350				28-29									300 (149)					_		
1/4/ 10 111				AC		Mechani	ical F			onsile		29					25 (1	07)				300	148	')	_		
Size / Polarity	Ref. No.	Tes	sting C	onditions		Ult. Tens		_		_		d Str	eng	th ps	i(MP	a)	П		E	Elong	.%	in 2"			_		
5/32X14 in / AC	PE5737		As W	elded		76,000 (523)			60,000 (41				31										
5/32X14 in / DCEP	PE5744		As W	elded		7	74,00	0 (507		60,000 (416				· ·				28									
1/4X18 in / DCEP	PE5984	+	As W	\dashv	75,000 (515)				\dashv					000 (416)				30									
1/4X18 in / AC	PE6413	+	As Welded				81,000 (560)					67,000 (463)					24										
3/16X14 in / AC	PE5763		As W		75,000 (520)					60,000 (41:				12)					29								
3/16X14 in / DCEP	PE5780		As Welded				72,000 (496)					59,000 (408)					31								-		
	1 20.00		7.00 11			Mechan				mpact				`											_		
Size / Polarity	ting Conditions Test Temp									.lb.(o.(J) Averag					ge ft.lb.(J) Type							_				
5/32X14 in / AC	PE5737		As W								,48 (96,102,65)				65 (88)					Charpy-V-Notch							
5/32X14 in / DCEP	PE5744		As Welded				` '				90,100,94 (122,136					128	;)		Charpy-V-Notch								
3/16X14 in / AC	PE5763		As Welded				· · · ·				1,81,53 (83,110,72)				65 (88)					Charpy-V-Notch							
3/16X14 in / DCEP	PE5780		As Welded				· · · · ·					,222 (260,328,301)				219 (296)				Charpy-V-Notch							
1/4X18 in / DCEP	PE5984		As Welded				-50 F (-46 C)				62,55,64 (84,75,									Charpy-V-Notch							
1/4X18 in / AC	PE6330		As Welded								31,47 (46,42,64)				37 (51)					Charpy-V-Notch					_		
Size / Polarity	Ref. No.	+	Radio		_	, , , , , , , , , , , , , , , , , , , ,					Fillet Weld Test						. , , , , , , , , , , , , , , , , , , ,										
5/32X14 in / AC	PE5737	Confo	Conforms				Horizontal :					Overhead : C										Vertical : Conforms					
5/32X14 in / DCEP 1/4X18 in / DCEP	PE5744 PE5984	Confo			_	Horizontal : Horizontal : Cor								Overhead : Conforms Overhead :				ns Vertica Vertica				l : Conforms					
1/4X18 in / AC	PE6330	Confo			\neg	Horizontal : Co				nforms			Overhead			: b			Vertical :						_		
3/16X14 in / AC	PE5763	Confo				Horizontal : Con								Overhead :				4		Vertical :				_			
3/16X14 in / DCEP	n / DCEP PE5780 Conforms Horizontal : Conforms Overhead : Vertical : Chemical Analysis														_												
Size / Polarity	Ref. No.	С	Mn	Р	s	Si	Cu	Cr	V	Ni	Мо	A	Ti	Nb	Со	вlw	Sn	Fe	Sb	N	Ла	Zn	Ве	Sb	T		
5/32X14 in / AC		0.04	0.99	0.010	0.009	0.47	П	0.04	< .01	0.03	0.0		П		\Box	╅		\top		\sqcap	Ť				Ť		
5/32X14 in / DCEP / PE5744		0.03	1.04	0.011	0.009	0.54		0.04	< .01	0.03	0.0		П			╅		\top		\sqcap	寸				t		
1/4X18 in / DCE	P / PE5984	0.04	1.30	0.010	0.009	_	П	0.06		0.06	_	_	П	П	П	\top	\top	\top	\top	\vdash	┪	\dashv			t		
1/4X18 in / AC / PE6330		0.06	1.26	0.010	0.010	0.43	П	0.07	< .01	0.06	0.0		П			╈	╈	\top		\vdash	\exists	\neg			t		
5/32X14 in / PE5737				H2O Me	thod :	Train - A	s Re	ceived				_	Tota	l Coa	ating	Mois	ture	· n n	58						_		
5/32X14	+	Total H2O Method : Train - As Received Total H2O Method : Train - 9 Hour									Total Coating Moisture : 0.058 Total Coating Moisture : 0.303																
	+										Total Coating Moisture : 0.058																
1/4X18 i		O Method : Train - As Received								Total Coating Moisture : 0.058																	
1/4X18 i	n / PE6330		Iotal	H2O Me					a4e -l	A14	IC A 4	_	ıota	ı Coa	ating	Mois	ture	: 0.2	53						_		
			2 8 ml	/100g of		ble Hydi metal fo							bu	midi	fv										_		
			2.0 IIII	, roog or	weiu	metai IC	, 1/4	W 10 III	uiaiii	-tei 20	/0 I E l	ati VE	iiu	mul	ıy										_		

3.0 ml/100g of weld metal for 1/4X18 in diameter 28% relative humidity	
2.3 ml/100g of weld metal for 5/32X14 in diameter 18% relative humidity	
2.2 ml/100g of weld metal for 5/32X14 in diameter 18% relative humidity	
2.6 ml/100g of weld metal for 3/16X14 in diameter 19% relative humidity	
2.6 ml/100g of weld metal for 3/16X14 in diameter 18% relative humidity	

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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.