

Certificate of Conformance to Requirements for Welding Electrode

Hobart

Product Type:	308/308L Sterling AP	
Classification:	E308-16/E308L-16	
Specifications: Diameter Tested:	AWS A5.4, ASME SFA 5.4	
Date Tested:	11/09/2015	
Date Generated:	7/22/2016	

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 ISO9000, ANSI/AWS A5.01, and other specification and Military requirements, as applicable.

Test Settings

iest Setti	ings																									
Amps	Volts Size			Polarity							P	Preheat Interpass					Travel Speed									
120	24			1/8X14 in			AC					rmt F (C) 300 F (⁻ (149	149 C) +- 1 in/mi									
105	25			1/8X14 in			DCEP					rmt F (C) 300 F (1				⁻ (149	149 C) +- 1 in/min									
140	26			5/32X14 in			DCEP					250 F (121 C) 300 F (1				⁻ (149	149 C) +- 1 in/min									
140	26-29			5/32X14 in			DCEP					250 F (121 C) 300 F (1					149 C) +- 1 in/min									
180	25		-	3/16X14 in			AC					250 F (121 C)			300 F (149 C)				+- 1 in/min							
160	25			3/16X14 in			DCEP					250 F (121 C) 300 F (- (149	149 C) +- 1 in/				nin					
Nechanic	cal Prope	rties - Te	nsile																							
Size / P	Polarity			Testing Conditions			Ult. Tensile Strength				Yield Strength					Elong.% in 2"										
1/8X14 in /	AC PC7686			As Welded			86,000 psi (596 Mpa)					59,000 psi (409 Mpa)					49									
1/8X14 in /	DCEP	DCEP PC7687		As Welded				87,000 psi (603 Mpa)				60,000 psi (416 Mpa)					43									
3/16X14 in	n / AC PC7690			As Welded				83,000 psi (570 Mpa)				59,000 psi (405 Mpa)					45									
3/16X14 in	/ DCEP	PC7691			As Wele	ded	82,000 psi (567 Mpa)					58,0	00 psi (403 I	Mpa)		47									
5/32X14 in	/ DCEP	PC7688			As Wele	ded	84,000 psi (581 Mpa)					61,000 psi (421 Mpa)					42									
5/32X14 in	/ DCEP	pc7689 As Welded			ded		84,000 psi (581 Mpa)					00 psi (417 I	Mpa)		37										
Size / P	Polarity Ref. No. Radiograph						T					l	Fillet W	eld Te	est											
1/8X14 in / /	AC	PC7686 Co		Conforms			Horizontal : Conforms					Overhead : Conforms				ms	Vertical : Conforms									
1/8X14 in / I	DCEP	PC7687	27687 Con		Conforms			Horizontal : Confo			onforms		Overhead :			: Conforms			Vertical : Confor				ns			
3/16X14 in /	/ AC PC7690		C	Conforms			Horizontal : Conforms				Overhead :					Vertical :										
3/16X14 in /	/ DCEP	CEP PC7691		onforn	ns		Horizontal : Conforms				Overhead :						Vertical :									
5/32X14 in /	/ DCEP PC7688		0	Conforms				Horizontal :				Overhead : Conforms					s Vertical : Conforms						ns			
		FC/000		ontorn	15		_	1101120	mai .				Jvernea	id : C	onior	1113				s Vertical : Conforms						
5/32X14 in /		PC7689	-	onform	-			Horizo					Dvernea Dverhea	-					Ve	tical	: Co	ntorr				
		PC7689	-		-									-					Ve	tical	: Co	ntorr				
Chemical	/ DCEP	PC7689	-		-	Р	S			Cr	v		Overhea	d : C		ms	BW	Sn			_		Be			
Chemical Size / Polar	/ DCEP I Analysis	PC7689 6		onform C	ns	P 0.032	S 0.007	Horizo	ontal :	Cr 19.155		(Overhea	d : C	onfor	ms	вw	Sn			_		Be			
Chemical Size / Polar I/8X14 in /	/ DCEP I Analysis rity / Ref. N	PC7689 o. 6		Onform C 0.043	ns Mn	-		Horizo Si 0.691	ontal : Cu			Ni	Dverhea Mo	d : C	onfor	ms	вw	Sn			_		Be			
Chemical Size / Polar 1/8X14 in / 1/8X14 in /	/ DCEP I Analysis rity / Ref. N AC / PC768	PC7689 6 6 7687		Onform C 0.043 0.035	Mn 1.241	0.032	0.007	Horizo Si 0.691 0.649	ontal : Cu 0.085	19.155 19.291		Ni 10.022	Dverhea Mo 0.110	d : C	onfor	ms	BW	Sn			_		Be			
Size / Polar 1/8X14 in / 1/8X14 in / 5/32X14 in /	/ DCEP I Analysis rity / Ref. N AC / PC768 DCEP / PC	PC7689 o. 66 7687 C7688		C 0.043 0.035 0.043	Mn 1.241 1.229	0.032 0.029	0.007 0.008	Horizo Si 0.691 0.649	Cu 0.085 0.084	19.155 19.291		Ni 10.022 9.880	Mo 0.110 0.116	d : C	onfor	ms	B W	Sn			_		Be			
Chemical Size / Polar 1/8X14 in / 1/8X14 in / 5/32X14 in / 5/32X14 in	/ DCEP I Analysis rity / Ref. N AC / PC768 DCEP / PC / DCEP / PC	PC7689 o. 66 7687 C7688 C7689		C 0.043 0.035 0.043 0.030	Mn 1.241 1.229 1.199	0.032 0.029 0.029	0.007 0.008 0.010	Horizo Si 0.691 0.649 0.627 0.673	Cu 0.085 0.084 0.093	19.155 19.291 19.333		Ni 10.022 9.880 9.890	Mo 0.110 0.116 0.097	d : C	onfor	ms	BW	Sn			_		Be			

land A. Thomas

Dave Thomas, Quality Assurance Rep.

The information 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. Hobart Brothers produces welding consumables under continuing quality assurance programs audited and approved by the American Bureau of Shipping ("ABS").