

## **Certificate of Conformance** to Requirements for Welding Electrode

Product Type: **HOBART 335A** 

Classification: E6011

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

5/32" ; 3/16" Diameter Tested: Date Tested: 3/8/2021 Date Generated: 3/23/2021

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. OF	U.S. AND IMP	ORTED M	IATER	AL	S.			Toe	t Sattir	nae																	
Test Settings Size Polarity Amps Volts Pr													Preh	heat F(C) Interp						F(C	)						
5/32X14 in		AC					150			26				225°F ()				()	300°F ()								
5/32X14 in		DC	EΡ			150				26				225°F ()				()	, ,								
3/16X14 in		A	.C			180				25				225°F (				.,	350°F ()								
3/16X14 in		DCEP					170			25				225°F			() 350°I					.,					
						Me	cha	nical I	Propert	ies - T	ensile									·							
Size / Polarity	Ref. No.	Testir	Testing Conditions					Ult. Tensile Strength psi				(MPa) Yield Strength ps				psi(MPa)				Elong.% in 2"							
3/16X14 in / AC	PE1998	Aged	Aged 48 Hrs 220F					71,000 ( 492 )				60,000 ( 41					14)				24						
3/16X14 in / DCEP	PE1999	Aged	75,000 ( 516 )					63,000 ( 437					37)					24									
5/32X14 in / AC	PE1996	Aged	48 Hrs	3 Hrs 220F				78,000 ( 541 )				66,000 ( 454 )										23					
5/32X14 in / DCEP	PE1997	Aged	Aged 48 Hrs 220F					81,00	3)	68,000 ( 469 )										26							
		J - 1				Me	cha	nical	Proper	ties - Ir	npact																
Size / Polarity	Ref. No.	Testir	Testing Conditions					Test Temp. F(C)				Individuals ft.lb.(J)				Average ft.lb.(J)					Туре						
5/32X14 in / AC	PE1135	A	As Welded				-20 F (-29 C)				35,51,3			35 (47,69,47)				40 ( 55			55)			Charpy-V-Notch			
5/32X14 in / AC	PE1996	A	As Welded				-20	) F (-2	(9 C) 35,4			4,35 (47,60,47)				38 ( 52				)		Charpy-V-Notch					
5/32X14 in / DCEP	PE1997	A	-20 F (-29 C)				3	36,41,38 (49,56,52)				38 (52)				)	Charpy-V-Notc					h					
3/16X14 in / AC	PE1998	A	-20 F (-29 C)				2	28,36,42 (38,49,57)					35 ( 48				)			Charpy-V-Notch							
3/16X14 in / DCEP	PE1999	A	-20 F (-29 C)					35,50,51 (47,68,69)				45 (61)					Charpy-V-Notch										
Size / Polarity	Ref. No.	Ra	Radiograph Fillet Weld Test																								
5/32X14 in / AC	PE1996	Conform						Horizontal :								ead : Conforms						Vertical : Conforms					
5/32X14 in / DCEP	PE1997	Conform	Horizontal:					Overhead				d : Conforms						Vertical : Conforms									
3/16X14 in / AC	PE1998	Conform				Horizontal :										d : Conforms						Vertical : Conforms					
3/16X14 in / DCEP	PE1999	Conform	5				Horizontal :					Overhead : Conforms						Vertical : Conforms									
					_,			Chemi	ical An	alysis							_			,				,			
Size / Polarity / Ref. No.		С	Mn	Р	s :	Si (	Cu	Cr	V	Ni	Мо	Al	Ti	Nb	Со	В	W	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As	
5/32X14 in / AC / PE1996		0.14	0.55		0.	20		0.03	0.01	0.02	0.01																
5/32X14 in / DCE	0.13	0.47		0.	15		0.03	0.01	0.02	0.01																	
3/16X14 in / AC	0.10	0.37		0.	12		0.04	0.01	0.07	0.01																	
3/16X14 in / DCE	0.11	0.45		0.	15		0.05	0.01	0.07	0.01	Г	Г			П												

Dave Thomas, Quality Assurance Rep.

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.