1/27/2020 Cert Demo



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

Product Type: HOBART 447A

Classification: **E6013** 

Specifications: AWS A5.1/A5.1M:2012

Diameter Tested:

Date Tested: 1/21/2020

Date Generated: 1/27/2020

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 IMPORTED MATERIALS.

Test Settings												
Size	Polarity	Amps	Volts	Preheat F(C)	Interpass F(C)							
5/32X14 in	AC	150	25	225 (107)	350 (177)							
5/32X14 in	DCEN	150	25	225 (107)	350 (177)							
3/16X14 in	AC	170	21	300 (149)	350 (177)							
3/16X14 in	DCEN	165	21	300 (149)	300 (149)							

6,16,411			100	21	000 (110	<u>/                                      </u>	000 (110)					
Mechanical Properties - Tensile												
Size / Polarity	Ref. No.	Testing Conditions	Ult. Tensile St	trength psi(MPa)	Yield Strength ps	i(MPa)	Elong.% in 2"					
5/32X14 in / AC	PD7569	Aged 48 Hrs 220F	74,00	0 ( 513 )	68,000 ( 46	5)	22					
5/32X14 in / DCEN	PD7572	Aged 48 Hrs 220F	70,000 ( 481 )		61,000 ( 419	9)	:	25				
3/16X14 in / DCEN	PD6556	Aged 48 Hrs 220F	71,00	0 ( 492 )	58,000 ( 39	7)	26					
3/16X14 in / AC	PD9010	Aged 48 Hrs 220F	70,00	0 ( 485 )	62,000 ( 430	0)	25					
3/16X14 in / DCEN	PD9011	Aged 48 Hrs 220F	70,000 ( 481 )		60,000 ( 414	1)		27				
Size / Polarity	Ref. No.	Radiograph	Fillet Weld Test									
5/32X14 in / AC	PD7569	Conforms	Horizont	al :	Overhead :	Conforms	Verti	cal : Conforms				
5/32X14 in / DCEN	PD7572	Conforms	Horizont	al :	Overhead :	Conforms	Verti	cal : Conforms				
3/16X14 in / AC	PD9010	Conforms	Horizonta	al :	Overhead :	Conforms	Verti	cal : Conforms				
3/16X14 in / DCEN	PD9011	Conforms	Horizontal :		Overhead :	Conforms	ns Vertical : Con					
Chemical Analysis												

- 1																								
	Size / Polarity / Ref. No.	С	Mn	PS	Si	Cu	Cr	V	Ni	Мо	Al	Ti	Nb	Со	В۱	V Sr	Fe	Sb	N	Mg	Zn	Ве	Sb	As
	5/32X14 in / AC / PD7569	0.07	0.33		0.34		0.02	0.01	0.02	0.01									П					
	5/32X14 in / DCEN / PD7572	0.07	0.29		0.24		0.01	0.01	0.01	< .01														
	3/16X14 in / AC / PD9010	0.08	0.33		0.41		0.02	0.01	0.02	< .01														
	3/16X14 in / DCEN / PD9011	0.08	0.35		0.37		0.02	0.01	0.01	0.01														

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.