



Certificate of Conformance to Requirements for Welding Electrode

Product Type: HOBART 14A
Classification: E7014
Specifications: AWS A5.1/A5.1M; ASME SFA 5.1
Diameter Tested: 5/32" - 3/16"
Date Tested: 4/8/2022
Date Generated: 4/11/2022

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)
3/16X14 in	AC	210	28	225 (107)	350 (177)
5/32X14 in	AC	170	24	225 (107)	350 (177)
5/32X14 in	DCEN	170	24	300 (149)	350 (177)
3/16X14 in	DCEN	210	28	()	()

Mechanical Properties - Tensile

Size / Polarity	Ref. No.	Testing Conditions	Ult. Tensile Strength psi(MPa)	Yield Strength psi(MPa)	Elong.% in 2"
5/32X14 in / AC	PE3869	Aged 48 Hrs 220F	76,000 (521)	68,000 (470)	27
5/32X14 in / DCEN	PE3879	Aged 48 Hrs 220F	75,000 (518)	68,000 (466)	26
3/16X14 in / AC	PE3867	Aged 48 Hrs 220F	75,000 (516)	68,000 (468)	27
3/16X14 in / DCEN	PE3881	Aged 48 Hrs 220F	76,000 (522)	67,000 (461)	24

Size / Polarity	Ref. No.	Radiograph	Fillet Weld Test			
3/16X14 in / AC	PE3867	Conforms	Horizontal :	Conforms	Overhead :	Vertical :
5/32X14 in / AC	PE3869	Conforms	Horizontal :		Overhead :	Vertical : Conforms
5/32X14 in / DCEN	PE3879	Conforms	Horizontal :		Overhead :	Vertical : Conforms
3/16X14 in / DCEN	PE3881	Conforms	Horizontal :	Conforms	Overhead :	Vertical :

Chemical Analysis

Size / Polarity / Ref. No.	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo	Al	Ti	Nb	Co	B	W	Sn	Fe	Sb	N	Mg	Zn	Be	Sb	As
3/16X14 in / AC / PE3867	0.081	0.42	0.014	0.007	0.27		0.05	0.02	0.06	0.01															
5/32X14 in / AC / PE3869	0.102	0.50	0.011	0.014	0.29		0.04	0.01	0.03	0.01															
5/32X14 in / DCEN / PE3879	0.068	0.37	0.011	0.011	0.23		0.03	0.01	0.02	0.01															
3/16X14 in / DCEN / PE3881	0.069	0.41	0.013	0.008	0.27		0.05	0.02	0.06	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.