Certificate of Conformance to Requirements for Welding Electrode

Product Type:	**HOBART 610**
Classification:	**E6010**
Specifications:	**AWS A5.1/A5.1M; ASME SFA 5.1**
Diameter Tested:	**1/8" 5/32"**
Date Tested:	**6/5/2026**
Date Generated:	**9/1/2026**

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)
1/8X14 in	DCEP	90	26	225 (107)	325 (163)
5/32X14 in	DCEP	140	26-28	225 (107)	325 (163)

Mechanical Properties - Tensile

Size / Polarity	Ref. No.	Testing Conditions	Ult. Tensile Strength psi(MPa)	Yield Strength psi(MPa)	Elong.% in 2"
1/8X14 in / DCEP	PF2071	Aged 48 Hrs 220F	84,000 (577)	68,000 (466)	**28**
5/32X14 in / DCEP	PF2778	Aged 48 Hrs 220F	77,000 (529)	63,000 (434)	**28**

Mechanical Properties - Impact

Size / Polarity	Ref. No.	Testing Conditions	Test Temp. F(C)	Individuals ft.lb.(J)	Average ft.lb.(J)	Type
1/8X14 in / DCEP	PF2071	As Welded	-20 F (-29 C)	34,35,30 (46,47,41)	33 (45)	Charpy-V-Notch
5/32X14 in / DCEP	PF2778	As Welded	-20 F (-29 C)	68,53,35 (92,72,47)	52 (70)	Charpy-V-Notch

Size / Polarity	Ref. No.	Radiograph	Fillet Weld Test					
1/8X14 in / DCEP	PF2071	Conforms	Horizontal :		Overhead :	Conforms	Vertical :	Conforms
5/32X14 in / DCEP	PF2778	Conforms	Horizontal :		Overhead :	Conforms	Vertical :	Conforms

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
1/8X14 in / DCEP / PF2071	0.16	0.34			0.18		0.04	0.01	0.07	< .01															
5/32X14 in / DCEP / PF2778	0.14	0.47			0.14		0.05	0.01	0.07	< .01															

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.