

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 115

Classification: E110T5-K4C H4

Specifications: AWS A5.29/A5.29M; ASME SFA 5.29

Diameter Tested: .045"; 3/32"

Date Tested: 9/22/2023

Date Generated: 5/7/2024

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.

THE STEEL USED IN THIS LOT OF MATERIAL WAS MELTED AND MANUFACTURED IN THE U.S.A.

Test Settings WFS Travel Speed Shielding Medium Amps / Polarity Volts ESO in(mm) Preheat F(C) Interpass F(C) in/min(m/min) in/min(cm/min) C1 420 / DCEP 27 165 (4.2) 1 (25) 300(149) 300(149) 14 (35.6) C1 225 / DCEP 27 350 (8.9) 5/8 (16) 300(149) 300(149) 9 (22.9) Mechanical Properties - Tensile Elong.% in 2" Shielding Medium Ref. No. **Testing Conditions** Ult. Tensile Strength psi (MPa) Yield Strength psi (MPa) Aged 48 Hrs 220F PE6799 125,000 (862) 108,000 (745) C1 PE6837 Aged 48 Hrs 220F 114,000 (786) 104,000 (717) 22 **Mechanical Properties - Impact** Shielding Medium Ref. No. **Testing Conditions** Temp. F (C) Individuals ft.lb.(J) Avg. ft.lb.(J) Type C1 PE6799 As Welded -60 (-51) 58,58,58 (79,79,79) 58 (79) Charpy-V-Notch Charpy-V-Notch C1 PF6837 As Welded -60 (-51) 66,63,63 (89,85,85) 64 (87) Fillet Weld Test Radiographic Inspection PE6799 Conforms Horizontal: Overhead: PE6837 Conforms Horizontal: Conforms Overhead: Vertical: Chemical Analysis

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Shielding Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	ΑI	Ti	Nb	Со	ВW	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As
C1 / CD98450	0.04	1.43	0.010	0.014	0.36	0.05	0.45	< .01	2.39	0.44														
C1 / PE6837	0.04	1.67	0.007	0.010	0.51	0.04	0.40	< .01	2.26	0.39									П					

Diffusible Hydrogen Collected per AWS A4.3								
C1	1.1 ml/100g of weld metal for .045 in diameter 23% relative humidity							
C1	2.2 ml/100g of weld metal for 3/32 in diameter 18% relative humidity							

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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.