

## Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 101
Classification: E101T1-GM

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

Diameter Tested: .045"

Date Tested: 10/30/2024

Date Generated: 2/11/2025

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**

	lest Settings																								
Shielding Medium		Amps / Polarity		ity	Volts			WFS in/min(m/min)			ESO in(mm)			Preheat F(C)				Interpass F(C)				Travel Speed in/min(cm/min)			
M21-ArC-25		250 / DCEP		>	27	450 (11.4		1.4)	.75 (19			3)			0(149)	П	300(149)				Т	13 (33)			
Mechanical Properties - Tensile																									
Shielding Medium		Ref. No.			Testing Conditions				Ult. Tensile Strength psi (l				i (MP	a)	reng	ength psi (MPa)					Elong.% in 2"				
M21-ArC-25		PE9496			Aged 48 Hrs 220F				104,000 ( 717 )						,000	00 ( 649 )					23				
Mechanical Properties - Impact																									
Shielding Medium		Ref. No. T		Testir	Testing Conditions				Temp. F (C)				Individuals ft.lb.(J)				Avg. ft.lb.(J)				$\Box$	Туре			
M21-ArC-25		PE9496		А	As Welded				-40 (-40) 95				95,92,100 (129,125,136)				96 ( 130 )				$\Box$	Charpy-V-Notch			
Ref.No.	T	Fillet Weld Test																							
PE9496	PE9496 Conforms				Horizontal :							Overhead : Conforn					s Vertica					al : Conforms			
	Chemical Analysis																								
Shielding N	Shielding Medium / Ref. No		Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI T	i Nb	Со	В	W	Sn	Fe	Sb	N	Mg	Zn E	3e	Sb As	
M21-ArC-	M21-ArC-25 / PE9496		1.60	0.010	0.007	0.3		0.04	< .01	1.9	0.11				0.0025										

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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.