

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

Product Type: FabCO 110

Classification: E111T1-K3 MJ H8

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

Diameter Tested: 1/16"

Date Tested: 3/23/2020

Date Generated: 5/26/2020

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.

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

## **Test Settings**

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Shielding Medium		Amps / Polarity		ity	Volts	WFS in/min(m/min)		nin)	E	SO in(r	mm)		Prel	reheat F(C)			Interpass F(C)				Travel Speed in/min(cm/min)			
M21-ArC-25		275 / DCEP		P	26	230 (5.8)		3)		.75 (19	9) ;			300(149)			300(149)				12 (30.5)			
Mechanical Properties - Tensile																								
Shieldi	Ref. No.			Testing Conditions				Ult. Tensile Strength psi				MPa) Yield Strer				ngth psi (MPa)				Elong.% in 2"				
M2°	PD9350			Aged 48 Hrs 220F				115,000 ( 793 )				107,000					738)				21			
Mechanical Properties - Impact																								
Shielding Medium		Ref. No.		Testir	Testing Conditions				Гетр. F (C)			Individuals ft.lb.(J)					Avg. ft.lb.(J)				Туре			
M21-ArC-25		PD9350		А	As Welded			-2	-20 (-29)			35,34,36 (47,46,49)					35 ( 47 )				Charpy-V-Notch			
Ref.No.   Radiographic Inspection   Fillet Weld Test																								
PD9350	Confor	ms			Horizontal :						Overhead : Conf					ms	ms Vertio					al: Conforms		
						С	hem	ical	Analy	sis														
Shielding Medium / Ref. No		С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	ΑI	Γi Nb	Co	вГ	N Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As
M21-ArC-25 / CD62820		0.05	1.65	0.008	0.007	0.5	0.01	0.04	0.02	1.86	0.32	П			T				П			П		
		-		Diffu	sible	Hyd	roge	n Co	llecte	d pe	r AW	S A	4.3			-	-							
	1404 1 0 05							~ ~	1/400			,	40 :			400/	1 0							

M21-ArC-25 3.9 ml/100g of weld metal for 1/16 in diameter 42% relative humidity

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.