

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 750M Classification: E111T1-K3MJ H4

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

.045" Diameter Tested: Date Tested: 5/4/2023 Date Generated: 4/23/2024

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																								
Shielding Medium		Amps / Polarity		arity	Volts	olts WFS in/min(m/min			ESO in(mm			m) Prehe			at F(C)		Interpass F(C)				Travel Speed in/min(cm/min)			
M21-	250	250 / DCEP			27 480 (12.2)			3/4 (19)			300 (149)				300 (149)				10 (25.4)					
	Mechanical Properties - Tensile																							
Shieldir	F	Ref. No.			Testing Conditions				Ult. Tensile Strength psi (I				Τ,	Yield Stre	ngth psi (MPa)					Elong.% in 2"				
M21	F	PE6155		Aged 48 Hrs 200F)F	111,000 (765)					104,000 (717)					20						
Mechanical Properties - Impact																								
Shielding Medium		Ref. No. T			Testing Conditions				Temp. F (Individuals ft.lb.(J)				Avg. ft.lb.(J)					Туре				
M21-ArC-25		PE6155			As Welded				-40 (-40)			62,60,60 (84,81,81)				61 (82)					Charpy-V-Notch			
M21-ArC-25		PE6155			As Welded				-76 (-60	42,45,45 (57,61,61)				44 (60)					Charpy-V-Notch					
Ref.No. Radiographic Inspection						Fillet Weld Test																		
PE6155	Confo	rms			Horizontal :						Overhead : Conform				s Vertica				al : Conforms					
Chemical Analysis																								
Shielding Medium / Ref. No		С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI T	i Nb	Со	В	W	Sn	Fe	Sb	VМ	g Z	n Be	Sb As	
M21-ArC-25 / CD94505		0.06	1.70	0.007	0.008	0.35		0.03	0.00320	1.94	0.35		Π		0.0033	П	П		\exists	T		\top		
				Dif	ffusib	e H	ydro	ogen	Collect	ed pe	er AV	VS A	4.3	3										
M21-ArC-25								2.4	4 ml/100a	of weld	d meta	l for .	045	in dia	meter 27	% re	elative	e hu	ımidi	tv				

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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.