

Product Type:	FabCO XL-525
Classification:	E71T-1MJ H8, E71T-9MJ H8, E71T-12MJ H8
Specifications:	AWS A5.20/A5.20M; ASME SFA 5.20
Diameter Tested:	1/16"
Date Tested:	3/8/2024
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	Amp	Amps / Polarity			WFS in/min(m/min)			ESO in(m			nm) Preheat F(C				Interpass F(C)						Travel Speed in/min(cm/min)						
M21-ArC-25	275	275 / DCEP			240 (6.1) 3/4 (19) Room Temp 300(14			9) Room Temi				300(149)				)		10 (25.4)									
Mechanical Properties - Tensile																											
Shielding Medium	R	ef. No.		Testing	Testing Conditions				Ult. Tensile Strength p				psi (MPa) Vield Str					ength psi (MPa)					Elong.% in 2"				
M21-ArC-25	P	E7612		Aged 4	Aged 48 Hrs 220F				76,000 ( 521 )				68,000				) (468)					29					
				M	echa	nical	l Pro	perti	es - I	mpa	ct																
Shielding Medium	Ref.	Ref. No. Test			sting Conditions				(C)		Individuals ft.lb.(J)				Avg. ft.lb.(J)					Т	Туре						
M21-ArC-25	PE76	612		As Welded				0 (-18	)	10	107,120,129 (145,163,175)					119(161)					Charpy-V-Notch						
M21-ArC-25	PE76	PE7612 /			As Welded				-40 (-40) 40,46,71				71 (54,62,96)				52 ( 71 )				Charpy-V-Notch						
Ref.No. Radiograp	f.No. Radiographic Inspection Fillet Weld Test																										
PE7612 Cor	E7612 Conforms				Horizontal :						Overhead : Conform					ns Vertical :							: Conforms				
Chemical Analysis																											
Shielding Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	AI .	Ti Nb	Co	В	W	Sn	Fe	Sb	N	Mg	Zn	Be	Sb	٩s			
M21-ArC-25 / CF03653	0.03 1.11 0.01			0.009	0.31	0.01	0.02	0.02	0.31	0.01				0.0058					$\Box$								
			Dif	fusibl	e Hy	drog	en C	ollec	ted p	er A	ws	A4.	3														
M21-ArC-25					2.6 ml/100g of weld metal for 1/16 in diameter 24% 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.