

Product Type:	FabCO Excel-Arc 71
Classification:	E71T-1C, E71T-1M, E71T-9C, E71T-9M H8
Specifications:	AWS A5.20/A5.20M; ASME SFA 5.20
Diameter Tested:	.045"
Date Tested:	4/22/2024
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 I	Medium	Amps	/ Pola	rity	Volts	in/r	WFS min(m/		ESO in(mm)					Р	Γ	Inte	erp	ass	F(C	C)	Τ	Travel Speed in/min(cm/min)							
C1 (100%	% CO2)	275	/ DCE	P	28	5	40 (13	.7)		(13)			F	n Temp	300(149)						Т	10 (25.4)							
M21-Ar	rC-25	275	/ DCE	P	27	5	.7)	3/4 (19)					F	Roor	n Temp	Т	300(149)						10 (25.4)						
					Ме	cha	nical	Prop	oert	ies -	Ten	nsile	e								_								
Shielding	Medium	Re	ef. No.	Testing	1	Strer	ngth	psi (MPa)		Yield Stre	th p	h psi (MPa)					Elong.% in 2"											
C1 (100	% CO2)	PE	27453		Aged 4	8 Hrs	220F		000 ((594)				81,0	(56	(560)					27								
M21-A	vrC-25	PE	E7896		Aged 4	220F		95,000 (652)						Ť	88,0	(607)						26							
Mechanical Properties - Impact																													
Shielding M	Shielding Medium Ref. No.				Testing Conditions				np. F	(C)		Individuals ft.lb.(J)						Av	g. 1	ft.lb.	(J)			Туре					
C1 (100%	CO2)	PE74	53		As Weld			ŀ	112,126,120 (152,171,163)						119 (162)						Charpy-V-Notch								
C1 (100%	CO2)	PE74	53	<u> </u>	As Weld		-20 (-29)					77,92,90 (104,125,122)						86 (117)						Charpy-V-Notch					
M21-ArC	M21-ArC-25 PE7896					As Welded				0 (-18)					96,88,90 (130,119,122)						91 (124)					Charpy-V-Notch			
M21-ArC	M21-ArC-25 PE7896					As Welded				29)		74,80,79 (100,108,107)							78 (105)					Charpy-V-Notch					
Ref.No.	Radiographic		tion				- '		F					illet Weld Test												_			
PE7453	Confo				Н						Overhead : Conform																		
PE7896	E7896 Conforms					Horizontal :						erhea	id :	Conform	Vertica					cal :	al : Conforms								
		С				1		nical			_				-		_	_			_	_			_				
0	Shielding Medium / Ref. No		Mn	Р	S	Si	Cu	Cr	V	Ni		-	AI	Ti Nb	Co		W	Sn	F	e S	;b	N	Mg	Zn	Be	Sb	As		
C1 (100% CO2	C1 (100% CO2) / PE7453		1.22	0.008	0.008	0.62	0.01	0.02	0.02	2 0.0	1 0.	.01				0.0058													
M21-ArC-25	M21-ArC-25 / PE7896 0.0		1.43	0.007	0.007	0.69	0.02	0.04	0.02	2 0.0	1 <	.01				0.0049													
				Dif	fusible	e Hy	drog	en Co	olle	cted	per	AV	VS .	A4.3	3														
				5.5 n	nl/100)g of v	veld r	neta	l for	.045	in di	ameter 18	% I	relat	ive	hur	nid	lity											
		7.1 ml/100g of weld metal for .045 in diameter 22% 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.