

## Certificate of Conformance to Requirements for Welding Electrode

Product Type:	FabCO 711M
Classification:	E71T-1C H8, E71T-1M H8
Specifications:	AWS A5.20/A5.20M; ASME SFA 5.20
Diameter Tested:	1/16"
Date Tested:	5/22/2023
Date Generated:	5/24/2023

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.

IE STEEL	USED IN THI	S LOT	OF M	IATER	IAL W					IANU	JFAC	TU	RED	IN '	ГН	ΕU	J <b>.S.</b> A	4.							
Shieldin	g Medium	Amps	ty V	Volts			Setti	) in(mr	n(mm) Pre			eheat F(C)				erpa	ass F	-(C)	Τ	Travel Speed in/min(cm/min					
M21-	ArC-25	275 /	DCEP	,	26	250	(6.4)		3/	4 (19)			Roor	n Ter	np		;	300	(149	))		1	0 (2	5.4)	
	C1	275 /	DCEP	,	27	260		3/4 (19)				Room Temp						(149	))	Т	10 (25.4)				
					Mec	hanio	al Pi	oper	ties ·	- Ten	sile														
Shielding Medium Ref. No.			Т	Testing Conditions				Ult. Tensile Strength psi (M					/Pa) Yield Strengt					th psi (MPa)				Elong.% in 2"			
M21-ArC-25 PE6189				A	Aged 48 Hrs 220F				87,000 ( 599 )					77,000 ( 5					(531)				25		
C1 PE6190			A	Aged 48 Hrs 220F				82,000 ( 562 )					70,000 ( 485 )						27						
					Mec	hani	cal P	ropei	rties	- Imp	act														
Shielding Medium Ref. No. T			Testing	Testing Conditions Te				<u> </u>				duals ft.lb.(J)					Avg. ft.lb.(J)				Туре				
M21-A	ArC-25	PE6189 A			As Welded			0 (-	0 (-18) 64				67,58 (87,91,79)					63 ( 85 )				Charpy-V-No			
C1 PE6279				As	Welded	0 (-	0 (-18) 34,44,4				17 (46,60,64)				4	42 ( 56 )				Charpy-V-N					
Ref.No.	Radiographic	Inspecti	on								Fillet	Wel	d Test										_		
PE6189 Conforms						rizontal	_		Overhead :												rtical : Conform				
PE6190	Confo	rms			Hor	izontal					0	verh	ead :	Coi	nfor	ms				Ver	tical	:  C	conf	orm	
						Ch	emic	al Ar	nalys	is															
Shielding M	ledium / Ref. No	C	Mn	Р	S	Si	Cu	Cr	V	Ni	Mo	AI	Ti Nb	Co	в	W	Sn	Fe	Sb	N	Mg	Zn	Be	Sb	
M21-ArC-2	25 / CD95421	0.05	1.30	0.010	0.011	0.77	0.04	0.03	0.02	0.01	0.01				Π										
C1 /	CD95423	0.04	1.06	0.011	0.011	0.57	0.04	0.03	0.02	0.01	0.01	Π			Π					Π					
				Diffu	sible	Hydro	ogen	Colle	ected	l per	AWS	A4	.3	-											
	C1						5.	4 ml/1	00g of	weld n	netal fo	r 1/1	6 in di	ame	ter 3	81%	relat	ive	hum	idity	,				
	M21-ArC-25	M21-ArC-25 7.0 ml/100g of weld metal for 1/16 in diameter 32% relative humidity										r 1/1	6 in di	ame	er 3	relat									

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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.