

## Certificate of Conformance to Requirements for Welding Electrode

Product Type:	FabCOR Hercules/Elevate
Classification:	E70C-6M H4
Specifications:	AWS A5.18/A5.18M; ASME SFA 5.18
Diameter Tested:	.052"
Date Tested:	12/16/2022
Date Generated:	12/19/2022

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.

						Те	est S	etting	js																				
Shielding Medium	Amps / Polarity			Volts	in/i	WFS min(m/		ESO in(mm)				m) Preł				)	Interpass F(C)				2)	Travel Spe in/min(cm/n							
M21-ArC-25	300	300 / DCEP 30 340 (			340 (8.	.6)		19)			Ro	om	Temp	,	300(149)						12 (30.5)								
				Ме	cha	nical	Pro	perti	es - T	ensi	le																		
Shielding Medium	R	Ref. No.		Testing	Conc	ditions		rengtl	ength psi (MPa) Yield Str						rength psi (MPa)						E	Elong.% in 2"							
M21-ArC-25	F F	PE5246		Aged 4						0 ( 57	,				7	1,00	0 (	487	7)					26					
				Ме	cha	nica	l Pro	operti	es - I	mpa	ct																		
Shielding Medium	Me Ref. No. Testing Cond pe5246 As Welde pe5246 As Welde pe5246 As Welde Conforms Ho						Te	emp. F	(C)		Indi	vidu	als i	ft.lb	.(J)			Avg	). ft.	lb.	(J)			Туре					
M21-ArC-25	pe52	As Weld	As Welded			-20 (-29)				38,43,39 (52,58,53)					40 ( 54 )					_	Charpy-V-Noto								
M21-ArC-25	· ·			As Weld	ed			-40 (-40) 37,35,27 (50,47								,							Charpy-V-Notch						
		ction			orizor	atal ·					Fillet		ld Te nead								Ve	ertic	<u>al ·</u>	_			_		
	11115						nica	l Ana	lvsis		0	venn	leau	<u>.</u>							ve		ai .						
Shielding Medium / Ref. No	С	Mn	P	s	Si	Cu	Cr	V	Ni	Мо	AI	TilN	Jb (	20	В		N	Sn	Fe	s	ьI		Ла	Zn	Be	Sb	As		
M21-ArC-25 / CD81193	0.05		0.010			0.09	0.03	< .01	0.36						0.000	_				1							+		
		<u></u>	Di	iffusible	• Hv	droa	en C	ollec			ws	A4	1.3				_										_		
M21-ArC-2	5							ml/100	-					dia	meter	14%	6 re	elati	ve h	nun	nidi	ity							

James A. Owens, Q.A. Specialist

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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.