

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 91K2-M
Classification: E91T1-K2MJ H8

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

Diameter Tested: .045"

Date Tested: 2/28/2022

Date Generated: 3/16/2022

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.

Test Settings

	rest Settings																						
Shielding Medium		Amps / Polarity		arity	Volts	ts WF in/min(n		nin)	E	SO in(mm)			Pr	Preheat F(C)			Interpass F(C)				Travel Speed in/min(cm/min)		
M21-ArC-20		275	275 / DCEP		27	52	20 (13.2	2)	3/4 (19				(300(149)		3	300(149)		11 (27.9)			
Mechanical Properties - Tensile																							
Shield	F	Ref. No.		Testing	Ul	Ult. Tensile Strength				(MPa)	trenç	ength psi (MPa)				Elong.% in 2"							
M21-ArC-20		F	PE3646		Aged 48 Hrs 200F				96,000 (665)					88	3,000	000 (605)				24			
Mechanical Properties - Impact																							
Shielding Medium		Ref.	No.	ting Cond	Temp	emp. F (C)			Individuals ft.lb.(J)				Avg. ft.lb.(J)				Туре						
M21-ArC-20		PE3	PE3646		As Welded			-40 (-40)			118,122,116 (160,165,157))	119 (161)				Charpy-V-Notch			ch
Ref.No. Radiographic Inspection				pection Fillet Weld Test															\Box				
PE3646	PE3646 Conform			ns			Horizontal :				Overh				head : Conforms \				ertical : Conforms				
	Chemical Analysis																						
Shielding M	Shielding Medium / Ref. No		Mn	Р	S	Si C	Cu Cr	· V	Ni	M	lo A	J Ti	Nb Cc	В	W	Sn F	e S	Sb N	Mg	Zn	Ве	Sb /	λs
M21-ArC-20 / PE3646		0.07	1.70	0.006	0.008	.28	0.1	2 < .0	1.6	2 < .	01			0.0027									
				Diff	fusible	Hyd	roge	n Col	lecte	d pe	er A\	NS	A4.3										
M21-ArC-25								3.1 ml/	/100g c	f welc	met	al for	.045 in	diameter	24%	relati	ve h	numid	ity				\neg

11/1/

Dave Thomas, Quality Assurance Rep.

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.