

## Certificate of Conformance to Requirements for Welding Electrode

Product Type:	FabCO 81K2-C
Classification:	E81T1-K2CJ H8
Specifications:	AWS A5.29/A5.29M; ASME SFA 5.29
Diameter Tested:	1/16"
Date Tested:	12/16/2022
Date Generated:	12/21/2022

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	st So	etting	s																	
Shieldir	ng Medium	Amps / Polarity			Volts	Volts WFS in/min(m/			E	in(mm) Pr					at F(C)		Interpass F(C)						Travel Speed in/min(cm/min				
C1 (10	00% CO2)	275 / DCEP			27	2	240 (6.	1)		.75 (	(19)		300(149)				300(149)						10 (25.4)				
					Ме	chai	nical	Pro	pertie	es - 1	<b>Fensi</b>	е															
Shield	ing Medium	Re	ef. No.	Testing Conditions				Ult. Tensile Strength ps					Pa)		Yield Strei	ength psi (MPa)						F	Elong.% in 2"				
C1 (1	00% CO2)	PE	E4533		Aged 48 Hrs 220F				84,000 ( 579 )							76,00	000 ( 522 )						26				
					Me	cha	nical	Pro	pertie	es - I	mpac	ct															
Shieldin	lding Medium Ref. No. T			Tes	ting Con	Te	mp. F (		Indi	uals	s ft.lb	.lb.(J) Avg.					.(J)	,		Туре							
C1 (10	0% CO2)	PE44	71		As Weld		-40 (-40) 107,100					)1 (1	45,1	36,137)	103(139)							Charpy-V-Not					
Ref.No.	Radiograph		tion				4 - L _								Test	0	_	_	_	_	_		_	—	_	_	_
PE4471	Confe	orms			H	orizon			Anal	veie		0	ver	hea	a :	Conforms	<u>;</u>		—	—		/erti	cai	<u> </u>	Cor	nforr	ns
Shielding M	/ledium / Ref. No	С	Mn	Р	s	Si		Cr		Ni	1		ті	Nb	Co	В	\\/	Sn	Ec	ᠴ	sh		Ma	17.		<u> </u>	b A
0	CO2) / PE4471		0.97	0.007					<u> </u>				<u>''</u>			0.0039	~	011		+			ivig	+	100		
01(100%)	502) / FL4471	0.04	0.97		fusible		1	1						13		0.0039			<u> </u>						_		
	C1					; 11y(	arog									ameter 249	% r	elati	vel	hu	mic	lity					
	01							4.01	111/ 1005	, 01 WC			17	101				Juli				<u></u>	—	—	—	—	—

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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.