

## Certificate of Conformance to Requirements for Welding Electrode

Product Type:	FabCO Xtreme 85
Classification:	E81T5-Ni2C H4
Specifications:	AWS A5.29/A5.20M; ASME SFA 5.29
Diameter Tested:	.052"
Date Tested:	10/15/2021
Date Generated:	12/9/2022

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																										
Shieldir	ng Medium	Amps / F	Vo	Volts Wi			in)	ES	F	Preheat F(C)					Interpass F(C)					Travel Speed in/min(cm/min)						
C1 (10	0% CO2)	230 / DCEN			23	270	(6.9)		1/2 (13)				300(149)					300(149)					8 (20.3)			
Mechanical Properties - Tensile																										
Shieldi	Shielding Medium Ref. No.				Testing Conditions				Ult. Tensile Strength psi (MPa)					) Yield Strength					th psi (MPa)				Elong.% in 2"			
C1 (1	00% CO2)	PE31	06	SI	SR 1 Hr @ 1125F				84,000 ( 583 )					70,000					) ( 483 )				25			
Mechanical Properties - Impact																										
Shielding	Shielding Medium Ref. No.				Testing Conditions				emp. F (C) Individ					duals ft.lb.(J)					Avg. ft.lb.(J)				Туре			
C1 (100	C1 (100% CO2) PE3106 S				SR 1 Hr @ 1125F				-75 (-59) 64,70,90 (					87,95,122)				75(101)					Charpy-V-Notch			
Ref.No. Radiographic Inspection Fillet Weld Test																										
PE3106 Conforms					Horizontal : Overhead : Conforms Vertical : Conforms												ns									
						Che	emi	cal A	nalys	is																
Shielding Medium / Ref. No		C	Mn	P	s	Si	Cu	Cr	V	Ni	Mo	AI	Ti	۱b	Co	в۷	vs	Sn	Fe	Sb	N	Mg	Zn E	ie Sl	b As	
C1 (100% CO2) / CD78687 0.04 0.61		0.007	0.006	0.05		0.03	< .01	2.35	0.01	0.24									П							
				Diffus	sible ⊦	Iydro	ger	n Col	lecte	d per	AWS	6 A4.	3													
C1 (100% CO2) 3.1								3.1 ml/	3.1 ml/100g of weld metal for .052 in diameter 27% relative humidity																	

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.