

## **Certificate of Conformance** to Requirements for Welding Electrode

Product Type: Fabshield X80 Classification: E81T8-Ni2 J H8

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

5/64" Diameter Tested: Date Tested: 9/04/2024 1/30/2025 Date Generated:

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																								
Shielding Medium		Amps / Polarity		Volts	in/	WFS in/min(m/m		ESO in(mm)			Preheat F(C)				Interpass F(C)				)	Travel Speed in/min(cm/min)					
N/A		235 / [	235 / DCEN			115 (2.9)			1	(25)		300(149)				300(149)					6.1 (15.5)				
Mechanical Properties - Tensile																									
Shielding Medium		Ref. I	Ref. No.		Testing Conditions			Ult.	Tensile	Stren	gth psi	Yield Strengt				th psi (MPa)				Elong.% in 2"					
N/A		PE86	641	Aged	d 48 Hrs 220F			92,000 ( 632 )				80,00				0 (549)					25				
Mechanical Properties - Impact																									
Shielding Medium		Ref. No.		Testing Co	ondition	ditions T			F (C)		Individuals ft.lb.(J)					Avg. ft.lb.(J)					Туре				
N/A		PE8641		As We	Velded			-40 (-40)			72,84	2,84,78 (98,114,106)				78 ( 106 )					Charpy-V-Notch				
Ref.No.		Fillet Weld Test														$\neg$									
PE8641 Conforms				Horizontal				Overhe						ad : Conforms					Vertical :				: Conforms		
	Chemical Analysis																								
Shielding	Shielding Medium / Ref. No		Mn	Р	S	Si	Cu	Cr	/ Ni	Мо	Al	Ti Nb	Co	В	w	Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As	
N/A / CF08136		0.02	1.23	0.006	0.003	0.08			1.91		0.85			П											
				Diffusik	le Hy	droge	en C	Colle	cted	per	AWS	A4.3													
				5.4	ml/10	00g of w	veld m	netal for	5/64 ir	diam	eter	179	6 rel	ative	e hun	nidit	iy								

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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.