

## Certificate of Conformance to Requirements for Welding Electrode

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	Product Type:	Fabshield 21B
	Classification:	E71T-11
	Specifications:	AWS A5.20/A5.20M; ASME SFA 5.20
	Diameter Tested:	.045"; 5/64"
	Date Tested:	9/11/2020
	Date Generated:	9/30/2020

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			s / Pola	rity	v Volts in/m			WFS /min(m/min)				D in(mm) Pre				eheat F(C)				Interpass F(C)				Travel Speed in/min(cm/min		
Self-Shielded 160 / DCEN					18	1	90 (4.8	3)	1/2 (13) Ro						oom Temp				300(149)				10 (25.4)			
Self-S	Shielded 275 / DCEN			EN	20	1	00 (2.5	5)	3/4 (19) Ro						oom Temp				300(149)				8 (20.3)			
Mechanical Properties - Tensile																										
Shielding Medium Ref. No.					Testing Conditions					Ult. Tensile Strength psi (MPa)						Yield Strength psi (MI					Elong.% in 2					
Self-Shielded pe1227					Aged 48 Hrs 220F					91,000 ( 630 )						64,000 ( 445 )					23					
Self-Shielded PE1231					Aged 48 Hrs 220F					93,000 ( 638 )						65,000 ( 450 )					23					
Ref.No. Radiographic Inspection Fillet Weld Test														_												
PE1227 Conforms					Horizontal :							Overh					Vertica									
PE1231		Ho	orizont	al:				Overhead : Con								Ve	rtical : Conforms									
Chemical Analysis																										
Shielding M	ledium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Mo	AI	Ti N	۱b (	Co E	3 V	/ Sr	n Fe	Sb	N	Mg	Zn	Be	Sb	As	
Self-Shielded / CD67219		0.30	0.33	0.007	0.003	0.11	0.02	0.03	0.01	0.01	0.01	1.58		T		Τ				Π						
Self-Shield	led / PE1227	0.28	0.34	0.009	0.003	0.12	0.02	0.02	0.01	0.01	0.01	1.25		Ť		Τ				$\square$						
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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.