

Certificate of Conformance to Requirements for Welding Electrode

Product Type: Fabshield 21B

Classification: E71T-11

Specifications: AWS A5.20/A5.20M; ASME SFA 5.20

 Diameter Tested:
 .045"; 5/64"

 Date Tested:
 12/12/2024

 Date Generated:
 1/10/2025

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	WFS in/min(m/min)	ESO in(mm)	Preheat F(C)	Interpass F(C)	Travel Speed in/min(cm/min)		
N/A	181 / DCEN	18	188 (4.8)	1/2 (13)	Room Temp	300(149)	5.1 (13)		
N/A	284 / DCEN	20	111 (2.8)	3/4 (19)	Room Temp	300(149)	7 (17.8)		

Mechanical Properties - Tensile

	Shieldi	Shielding Medium Ref. No.		Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"					
	N/A PE8938		PE8938	Aged 48 Hrs 200F	91,000 (628)	62,000 (428)	23					
	N/A PE9347		Aged 48 Hrs 220F	93,000 (641)	68,000 (468)	21						
Ref.No. Radiographic Inspection			Inspection	Fillet Weld Test								
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PE8938 Conforms Horizontal: Overhead: Conforms Vertical: Conforms PE9297 Conforms Horizontal: Overhead: Conforms Vertical: Conforms

Chemical Analysis

П	Shielding Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	Al	Ti	Nb	Со	В۷	V S	n Fe	∍ S	bΝ	Mg	Zn	Ве	Sb	As
П	N/A / PE8938	0.25	0.41	0.008	0.002	0.13	0.07	0.04	< .01	0.03	0.01	1.24													
Ш	N/A / PE9347	0.30	0.36	0.010	0.002	0.11	0.07	0.04	< .01	0.02	0.01	1.60	Г			П	Т					П			П

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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.