

Certificate of Conformance to Requirements for Welding Electrode

Product Type: FABSHIELD 21B

Classification: E71T-11

Specifications: AWS A5.20; ASME SFA5.20

 Diameter Tested:
 .035"; 5/64"

 Date Tested:
 6/23/2017

 Date Generated:
 11/21/2017

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)					
SELF SHIELDING	275 / DCEN	20	100 (2.5)	3/4 (19)	Room Temp	300(149)	8 (20.3)					
SELF SHIELDING	180 / DCEN	20.5	370 (9.4)	1/2 (13)	Room Temp	325(163)	9 (22.9)					
Mechanical Properties - Tensile												
2												

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
SELF SHIELDING	pd3452	Aged 48 Hrs 200F	92,000 (634)	65,000 (447)	23
SELF SHIELDING	PD4199	Aged 48 Hrs 200F	94,000 (645)	65,000 (448)	20

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ı	Ref.No. Radiographic Inspection		nspection	Fillet Weld Test									
ı	PD3452	Conforms		Horizontal :	Overhead	: Ve	rtical :						
ı	PD3784	Conforn	าร	Horizontal :	Overhead	Vertical :							
ľ	Observiced Ameliania												

Chemical Analysis

Shielding Medium / Ref. No	С	Mn	Р	S	Si	Cu	Cr	V	Ni	Мо	Al	Ti	Nb	Со	вν	/ Sn	Fe	Sb	N	Mg	Zn	Ве	Sb	As
SELF SHIELDING / PD3452	0.25	0.39	0.012	0.005	0.16	0.05	0.02	< .01	0.03	0.01	1.46	П			П	Г	П		П					
SELF SHIELDING / PD3784	0.28	0.35	0.015	0.005	0.08	0.04	0.03	< .01	0.01	0.01	1.01	П			П									

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.