



Certificate of Conformance to Requirements for Welding Electrode

Product Type: FabCO 911B3 .045 33 SP
 Classification: E91T1-B3C H4;E91T1-B3M H4
 Specifications: AWS A5.29-2005; ASME SFA5.29
 Diameter Tested: 1/16"
 Date Tested: 03/07/2014
 Date Generated: 1/9/2015

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)
SG-AC-25	275 / DCEP	29	255 (6.5)	.75 (19)	350(177)	350(177)	8 (20.3)
SG-C 100%CO2	275 / DCEP	29	255 (6.5)	.75 (19)	350(177)	350(177)	9 (22.9)

Mechanical Properties - Tensile

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
SG-C 100%CO2	pc2607	SR 1 Hr @ 1295F	95,000 (653)	81,000 (561)	20
SG-AC-25	pc2614	SR 1 Hr @ 1295F	102,000 (703)	89,000 (616)	19

Ref.No.	Radiographic Inspection	Fillet Weld Test			
PC2463	Conforms	Horizontal :	Overhead :	Conforms	Vertical : Conforms
PC2464	Conforms	Horizontal :	Overhead :	Conforms	Vertical : Conforms

Chemical Analysis

Shielding Medium / Ref. No	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo	Al	Ti	Nb	Co	B	W	Sn	Fe	Sb	N	Mg	Zn	Be
SG-C 100%CO2 / CB73110	0.05	0.59	0.009	0.010	0.26	0.02	2.32	0.01	0.02	0.96													
SG-AC-25 / CB73829	0.05	0.74	0.010	0.010	0.47	0.02	2.37	0.01	0.02	1.03													

Diffusible Hydrogen Collected per AWS A4.3

SG-C 100%CO2	2.8 ml/100g of weld metal for 1/16 in diameter 61% relative humidity
SG-AC-25	2.7 ml/100g of weld metal for 1/16 in diameter 61% relative humidity

Joe O'Leary

Joe O'Leary, 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. Hobart Brothers produces welding consumables under continuing quality assurance programs audited and approved by the American Bureau of Shipping ("ABS").