



Certificate of Conformance to Requirements for Welding Electrode

Product Type: Self-Shield 11
 Classification: E71T-11
 Specifications: AWS A5.20; ASME SFA5.20
 Diameter Tested: .035"; 3/32"
 Date Tested: 08/27/2013
 Date Generated: 5/7/2014

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 ISO9001, 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.

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	260 / DCEN	20	50 (1.3)	3/4 (19)	70(21)	300(149)	7 (17.8)
SELF SHIELDING	200 / DCEN	20	390 (9.9)	1/2 (13)	70(21)	325(163)	9 (22.9)

Mechanical Properties - Tensile

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
SELF SHIELDING	PB9996	Aged 48 Hrs 200F	89,000 (614)	64,000 (439)	22
SELF SHIELDING	PC0986	Aged 48 Hrs 200F	90,000 (621)	60,000 (414)	25

Ref.No.	Radiographic Inspection	Fillet Weld Test			
PB9996	Conforms	Horizontal :	Overhead :	Vertical :	
PC0986	Conforms	Horizontal :	Overhead :	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
SELF SHIELDING / CB60023	0.28	0.32	0.007	0.004	0.10	0.04	0.04	< .01	0.02	0.01	1.18												
SELF SHIELDING / CB61819	0.22	0.32	0.010	0.003	0.15	0.02	0.02	< .01	0.01	0.01	1.49												

J. H. 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").