

Product Type: FABSHIELD XLR-8
 Classification: E71T-8JD H8
 Specifications: AWS A5.20-2005; ASME SFA5.20
 Diameter Tested: 1/16"; 5/64"
 Date Tested: 11/17/09
 Date Generated: 3/2/2010

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 ISO9000, ANSI/AWS A5.01, and other specification and Military requirements, as applicable.

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)
SELFSHIELD	300 / DCEN	23	168 (4.3)	1 (25)	60(16)	300(149)	7 (17.8)
SELFSHIELD	260 / DCEN	22	265 (6.7)	1 (25)	70(21)	300(149)	8 (20.3)

Mechanical Properties - Tensile

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
SELFSHIELD	PB0102	Aged 48 Hrs 200F	87,000 (598)	68,000 (465)	28
SELFSHIELD	PB1456	Aged 48 Hrs 200F	84,000 (582)	69,000 (475)	28

Mechanical Properties - Impact

Shielding Medium	Ref. No.	Testing Conditions	Temp. F (C)	Individuals ft.lb.(J)	Avg. ft.lb.(J)	Type
SELFSHIELD	PB1456	As Welded	-40 (-40)	40,43,36 (54,58,49)	40 (54)	Charpy-V-Notch
SELFSHIELD	PB0102	As Welded	-40 (-40)	32,30,34 (43,41,46)	32 (43)	Charpy-V-Notch

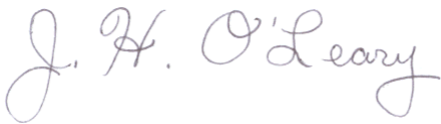
Ref.No.	Radiographic Inspection	Fillet Weld Test			
PB0102	Conforms	Horizontal :	Overhead :	Conforms	Vertical : Conforms
PB1456	Conforms	Horizontal :	Overhead :		Vertical :

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
SELFSHIELD / CA91160	0.19	0.55	0.007	0.004	0.18						0.85												
SELFSHIELD / CB01185	0.14	0.49	0.006	0.005	0.16						0.82												

Diffusible Hydrogen Collected per AWS A4.3

SELFSHIELD	7.0 ml/100g of weld metal for 5/64 in diameter
SELFSHIELD	6.0 ml/100g of weld metal for 1/16 in diameter



Joe O'Leary, Manager, Quality Assurance



Melvin Seitz, Quality Manager

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").