

Product Type: Fabshield 79T8  
 Classification: E71T8-Ni1 J H8  
 Specifications: AWS A5.29-2005; ASME SFA5.29  
 Diameter Tested: 1/16" / 5/64"  
 Date Tested: 05/19/2011  
 Date Generated: 1/18/2013

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)
None	210 / DCEN	19	130 (3.3)	1/2-3/4 (0)	300(149)	300(149)	7 (17.8)
SELFSHIELD	240 / DCEN	20	105 (2.7)	1 (25)	300(149)	300(149)	6 (15.2)

### Mechanical Properties - Tensile

Shielding Medium	Ref. No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong.% in 2"
None	PB1437	Aged 48 Hrs 220F	78,000 ( 537 )	67,000 ( 460 )	29
SELFSHIELD	PB4682	Aged 48 Hrs 200F	77,000 ( 530 )	65,000 ( 447 )	31

### Mechanical Properties - Impact

Shielding Medium	Ref. No.	Testing Conditions	Temp. F (C)	Individuals ft.lb.(J)	Avg. ft.lb.(J)	Type
None	PB1437	As Welded	-40 (-40)	126,158,139 (171,214,188)	141 ( 191 )	Charpy-V-Notch
SELFSHIELD	PB4682	As Welded	-40 (-40)	297,297,296 (403,403,401)	297 ( 402 )	Charpy-V-Notch

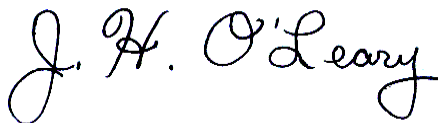
Ref.No.	Radiographic Inspection	Fillet Weld Test			
PB1437	Conforms	Horizontal :	Overhead :	Conforms	Vertical : Conforms
PB4682	Conforms	Horizontal :	Overhead :		Vertical :

### 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
NONE / CB02370	0.02	1.44	0.010	0.003	0.06	0.05	0.05	< .01	0.98	0.01	1.18												
SELFSHIELD / PB4940	0.03	1.40	0.009	0.003	0.07	0.02	0.03	< .01	1.02	< .01	0.95												

### Diffusible Hydrogen Collected per AWS A4.3

None	5.5 ml/100g of weld metal for 1/16 in diameter 43% relative humidity
SELFSHIELD	5.8 ml/100g of weld metal for 5/64 in diameter 54% relative humidity



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").