

## Certificate of Conformance to Requirements for Welding Electrode

Product Type: Metalloy 90 Classification: E90C-K3 H4 AWS A5.28-2005; ASME SFA5.28 Specifications: 1/16" Diameter Tested: Date Tested: 10/03/2014 Date Generated: 10/8/2014 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** WFS Travel Speed Preheat F(C) Shielding Medium Amps / Polarity Volts ESO in(mm) Interpass F(C) in/min(m/min) in/min(cm/min) SG-AC-25 340 / DCEP 300(149) 300(149) 28 270 (6.9) .75 (19) 12 (30.5) **Mechanical Properties - Tensile** Elong.% in 2" Shielding Medium Ult. Tensile Strength psi Yield Strength psi (MPa) Ref. No. **Testing Conditions** (MPa) SG-AC-25 PC4198 As Welded 103,000 (710) 96,000 (662) 22

Mechanical Properties - Impact

Snielding Medium		Ret. No.	Lesting Conditions	Temp. F (C)	Individuals It.ib.(J)	Avg. π.ib.(J)	I ype
SG-AC-25		PC4198	As Welded	-60 (-51)	69,68,70 (94,92,95)	69 ( 94 )	Charpy-V-Notch
Ref.No. Radiographic Inspection					Fillet Weld Test		
PC4198 Conforms			Horizon	tal:	Overhead:	ĺ	Vertical:

Chemical Analysis

Ш	Shielding Medium / Ref. No	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo	Al	Ti	Nb	Co	B \		Sn	Fe	Sb	N	Mg	Zn	Be
	SG-AC-25 / CB72256	0.04	1.08	0.008	0.010	0.24	0.04	0.03	< .01	1.65	0.31			•			•					•		

Diffusible Hydrogen Collected per AWS A4.3

SG-AC-25 2.0 ml/100g of weld metal for 1/16 in diameter 69% relative humidity

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