

Certificate of Conformance to Requirements for Welding Electrode

Product Type: METALLOY 70X .045 60 CL

Classification: E70C-6M H4

Specifications: AWS A5.18-2005; SFA5.18

Diameter Tested: .045"

 Date Tested:
 6/08/2016

 Date Generated:
 6/22/2016

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		Volt	Volts WFS in/min(m/r		min)	ESO	SO in(mm)		Pre	Preheat F(C)		Interpass F(C)			Travel Speed in/min(cm/min)					
SG-AC-25		250 / DCEP			28	340 (8.6)		6) 3/4 (19)				60(16)		300(149)			12 (30.5)					
Mechanical Properties - Tensile																						
Shielding Medium		Ref. No.		Те	Testing Conditions			Ult. Tensile Stren (MPa)				Yield Strength ps			(MPa)	Elong.%				% in 2"		
SG-AC-25		PD0401			As Welded			81,000 (558				68,000 ((467)			28				
Mechanical Properties - Impact														·								
Shielding Medium		Ref. No.		Testing	esting Conditions			Temp. F (C)			Individuals ft.lb.(J)			Avg. ft.lb.(J)			Т	Туре				
SG-AC-25		PD0401		Α	As Welded			-20 (-29)			35,35,41 (47,47,56)		56)	37 (50)			Charpy-V-Notch					
Ref.No. Radiographic Inspection						Fillet Weld Test																
PD0401	PD0401 Conforms				Horizontal :				:			Overhead:						Vertical:				
Chemical Analysis																						
Shielding	Shielding Medium / Ref. No		С	Mn	Р	S	Si	Cu	Cr	V	Ni	Mo	Al Ti	Nb	Co E	W	Sn Fe	Sb	N	Mg Z	Zn [Ве
C25 / CD15280			0.04	1.72	0.008	0.008	0.78	0.04	0.03	< .01	0.02	0.01										
Diffusible Hydrogen Collected per AWS A4.3																						
SG-AC-25								1.9 m	1/100g c	f weld i	netal	for .045 i	n diam	neter	54% r	elative	e humic	lity				

land A. Thomas

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").