

Product Type: FABCORXR  
 Classification: E70T-1C, E70T-9C  
 Specifications: AWSA5.20-2005; ASMESFA5.20  
 Diameter Tested: 3/32"; .045"  
 Date Tested: 6/16/08  
 Date Generated: 10/9/2008

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 dates 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 9000, ANSI/AWSA 5.01, and other specification and Military requirements, as applicable.

### Test Settings

Shielding Medium	Amps/Polarity	Volts	WFS in/min(m/min)	ESOI in (mm)	Preheat F(C)	Interpass F(C)	Travel Speed in/min(cm/min)
SG-C100%CO2	250/DCEP	28	450(11.4)	3/4(19)	70(21)	300(149)	10(25.4)
SG-C100%CO2	420/DCEP	29	145(3.7)	1(25)	70(21)	300(149)	12(30.5)

### Mechanical Properties-Tensile

Shielding Medium	Ref.No.	Testing Conditions	Ult. Tensile Strength psi (MPa)	Yield Strength psi (MPa)	Elong. % in 2"
SG-C100%CO2	PA7133	Aged 48 Hrs 200F	88,000(603)	75,000(518)	26
SG-C100%CO2	PA7130	Aged 48 Hrs 200F	89,000(615)	76,000(521)	26

### Mechanical Properties-Impact

Shielding Medium	Ref.No.	Testing Conditions	Temp. F(C)	Individuals ft.lb.(J)	Avg. ft.lb.(J)	Type
SG-C100%CO2	PA7075	As Welded	0(-18)	30,32,29(41,43,39)	30(41)	Charpy-V-Notch
SG-C100%CO2	PA7075	As Welded	-20(-29)	25,27,25(34,37,34)	26(35)	Charpy-V-Notch
SG-C100%CO2	PA7070	As Welded	0(-18)	40,41,41(54,56,56)	41(55)	Charpy-V-Notch
SG-C100%CO2	PA7070	As Welded	-20(-29)	32,31,36(43,42,49)	33(45)	Charpy-V-Notch

Ref.No.	Radiographic Inspection	Fillet Weld Test
PA7075	Conforms	Horizontal: Conforms Overhead: <input type="checkbox"/>
PA7070	Conforms	Horizontal: <input type="checkbox"/> Overhead: <input type="checkbox"/>

### 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
SG-C100%CO2/CA69279	0.05	1.68	0.009	0.007	0.69	0.04	0.04	0.02	0.02	0.01													
SG-C100%CO2/CA69324	0.05	1.47	0.008	0.009	0.58	0.06	0.04	0.02	0.02	<.01													

### Diffusible Hydrogen Collected per AWSA4.3

SG-C100%CO2	5.8 ml/100g of weld metal for 3/32 inch diameter
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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").