

Product: FabCO Element 71C Diameter: 1/16" Shielding Gas: C1 (100% CO2) Current/Polarity: DCEP Classification: E71T1-GC H8 Specification: AWS A5.29/A5.29M:2010 Test Completed: 2/14/2020

Certificate of Conformance For AWS D1.8/D1.8M, Seismic Supplement

This is to certify that the product named is of the same classification, manufacturing process, and material requirements as the material, which was used for the test which was concluded on the date shown, the results of which are shown below. All test required by the code or specifications were performed at that time and the material tested met all requirements. The product was manufactured and supplied by the Quality System Program of Hobart Brothers, which meets the requirements of ISO 9001:2015, ANSI/AWS A5.01, and other specification and Military requirements, as applicable.

Test Settings	High Heat Input	Low Heat Input		Lot- # C604351904291	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	82.3 kJ/in	30.3 kJ/in		Mechanical Properties		82.3 kJ/in	30.3 kJ/in
Voltage	25	27		Test Reference #		PD9092	PD9091
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. ºF Interpass Temp. ºF Weld Position	Current (amps) 225 27 WFS (ipm) 180 24 Travel Speed (ipm) 4.1 14 Stick Out 3/4" 3/ # of passes 8 1 # of layers 4 7 Preheat Temp. °F 300+/-25 R Interpass Temp. °F 500+/-50 200+		275 240 14.7 3/4" 17 7 RT 200+/-25 1G	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 ⁰F	70,000 58,000 22 40	74,000 66,000 26 91	77,000 68,000 25 92
Test Settings	High Heat Input	Low Heat Input		Lot- # Z601232203162	AWS D1.8	High Heat Input	Low Heat Input
¥	78.5 kJ/in	28.2 kJ/in		Mechanical Properties	Requirements	78.5 kJ/in	28.2 kJ/in
Voltage	25	27		Test Reference #		PD9068	PD9065
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. ^o F Interpass Temp. ^o F Weld Position	225 180 4.3 3/4" 8 4 300+/-25 500+/-50 3G	300 240 17.2 3/4" 14 6 RT 200+/-25 1G		Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 ⁰F	70,000 58,000 22 40	71,000 620400 28 73	79,000 72,000 27 90
Test Settings	High Heat Input	Low Heat Input	-	Lot- # V612211904181	AWS D1.8	High Heat Input	Low Heat Input
	80.4 kJ/in	29.1 kJ/in		Mechanical Properties	Requirements	80.4 kJ/in	29.1 kJ/in
Voltage	25	27		Test Reference #		PD9046	PD9058
Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers Preheat Temp. ºF Interpass Temp. ºF Weld Position	220 170 4.2 3/4" 8 4 300+/-25 500+/-50 3G	275 230 15.3 3/4" 17 7 RT 200+/-25 1G		Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 ⁰F	70,000 58,000 22 40	72,000 62,000 30 93	78,000 69,000 27 89

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M								
Condition	Lot - #	Test Reference #	Average (ml/100g)					
As Received	B022682701712	HB3890	5.3 (ml/100g)					
7 Day Exposure	B022682701712	HB3941	8.6 (ml/100g)					

The information contained or otherwise referenced herein is presented without guarantee or warranty. Hobart Brothers Company ("Hobart") expressly disclaims any liability incurred from any reliance thereon. Data for the above-supplied product are those obtained during the welding process and tested in accordance with the above specification with electrodes of the same manufacturing processes and material requirements. All tests for the above classification were performed satisfactorily. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart. **Hobart produces welding consumables under continuing quality assurance programs audited and approved by the American Bureau of Shipping** ("ABS"). Please refer to the Hobart Brothers Company website at www.hobartbrothers.com for current Safety Data Sheets ("SDS").

P. M. Thomas