



**Product:** FabCO 803  
**Diameter:** 1/16"  
**Shielding Gas:** C1 (100% CO2)  
**Current/Polarity:** DCEP  
**Classification:** E81T1-Ni2 CJ H4  
**Specification:** AWS A5.29/A5.29M:2010  
**Test Completed:** 1/12/2019

## 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- # B019091227421	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	66.1 kJ/in	29.5 kJ/in	Mechanical Properties		66.1 kJ/in	29.5 kJ/in
			Test Reference #		PD7119	PD7113
Voltage	23.5	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	80,000 68,000 19 40	89,000 78,000 24 125	96,000 91,000 23 100
Current (amps)	225	275				
WFS (ipm)	180	235				
Travel Speed (ipm)	4.8	15.1				
Stick Out	1/2"-3/4"	1/2"-3/4"				
# of passes	10	20				
# of layers	5	8				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # X04101120602	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	63.4 kJ/in	30.1 kJ/in	Mechanical Properties		63.4 kJ/in	30.1 kJ/in
			Test Reference #		PD0221	PD0222
Voltage	23.5	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	80,000 68,000 19 40	80,000 71,000 31 170	87,000 82,000 27 129
Current (amps)	225	275				
WFS (ipm)	160	235				
Travel Speed (ipm)	5.0	14.8				
Stick Out	1/2"-3/4"	1/2"-3/4"				
# of passes	8	19				
# of layers	4	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # T00667	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	62.0 kJ/in	29.1 kJ/in	Mechanical Properties		62.0 kJ/in	29.1 kJ/in
			Test Reference #		PB8330	PB7919
Voltage	22.5	27	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	80,000 68,000 19 40	82,000 72,000 27 134	84,000 75,000 27 114
Current (amps)	225	220				
WFS (ipm)	160	165				
Travel Speed (ipm)	4.9	12.25				
Stick Out	1/2"-3/4"	1/2"-3/4"				
# of passes	9	22				
# of layers	5	7				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

#### Diffusible Hydrogen - Tested in accordance with AWS A5.29/A5.29M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M

Condition	Lot - #	Test Reference #	Average (ml/100g)
As Received	B019091227421	HB2951	3.9 (ml/100g)
7 Day Exposure	B019091227421	HB2987	4.9 (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](http://www.hobartbrothers.com) for current Safety Data Sheets ("SDS").

David A. Thomas, Quality Assurance Representative