

Product: FabCOR Edge Nil

Diameter: .052"

Shielding Gas: M20-ArC-10 Current/Polarity: DCEP Classification: E80C-Ni1 H4

Specification: AWS A5.28/A5.28M:2017

Test Completed: 6/23/2021

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-# D670121202031	AWS D1.8	High Heat Input	Low Heat Input
	80.8 kJ/in	26.0 kJ/in		Mechanical Properties	Requirements	80.8 kJ/in	26.0 kJ/in
Voltage Current (amps) WFS (ipm) Travel Speed (ipm) Stick Out # of passes # of layers	30 440 540 10.1 5/8" 8 4	26 260 255 15.3 5/8"		Test Reference # Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch	70,000 58,000 22	PE2499 86,000 73,500 27	90,700 83,100 26
Preheat Temp. °F 300+/-25 Interpass Temp. °F 500+/-50 Weld Position 1G	RT 200+/-25 1G		Impact Properties ft•lbs @ +70 °F	40	107	89	

Test Settings	High Heat Input	Low Heat Input	Lot-# C024712116	AWS D1.8	High Heat Input	Low Heat Input
	80.8 kJ/in	26.0 kJ/in	Mechanical Properties	Requirements	80.8 kJ/in	26.0 kJ/in
Voltage	30	26	Test Reference #		PE2545	PE2540
Current (amps)	440	260				
WFS (ipm)	540	270				
Travel Speed (ipm)	9.8	15.3	Tensile Strength (psi)	70,000	85,000	91,900
Stick Out '	5/8"	5/8"	Yield Strength (psi)	58,000	72,000	84,500
# of passes	8	19	Elongation (%)	22	32	24
# of layers	3	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	91	85
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	1G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot-# C017941410423	AWS D1.8	High Heat Input	Low Heat Input
	78.4 kJ/in	27.4 kJ/in	Mechanical Properties	Requirements	78.4 kJ/in	27.4 kJ/in
Voltage	30	26	Test Reference #		PE2558	PE2554
Current (amps)	440	260				
WFS (ipm)	540	270				
Travel Speed (ipm)	10.1	14.8	Tensile Strength (psi)	70,000	86,200	96,000
Stick Out	5/8"	5/8"	Yield Strength (psi)	58,000	72,000	88,600
# of passes	8	19	Elongation (%)	22	25	23
# of layers	4	7	Average Charpy V-notch			
Preheat Temp. ⁰F	300+/-25	RT	Impact Properties ft•lbs @	40	92	79
Interpass Temp. ⁰F	500+/-50	200+/-25	+70 °F			
Weld Position	1G	1G				

Diffusible Hydrogen - Tested in accordance with AWS A5.28/A5.28M, Clause 14 & Extended Exposure - in accordance with AWS D1.8/D1.8M								
Condition	Lot -#	Test Reference #	Average (ml/100g)					
As Received	D609121205	HB4842	3.9 (ml/100g)					
7 Day Exposure	D609121205	HB4862	4.4 (ml/100g)					

The information contained or otherwise referenced herein is presented without guarantee or warranty. Hobart Brothers LLC 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 Brothers. Refer to the Hobart Brothers website at www.hobartbrothers.com for current Safety Data Sheets ("SDS").

Sail A. Thoms

David A. Thomas, Quality Specialist