

Product: Tri-Mark TM-771 Diameter: .052" Shielding Gas: C1 (100% CO2) Current/Polarity: DCEP Classification: E71T-1C; E71T-12CJ H8 Specification: AWS A5.20/A5.20M:2005 Test Completed: 2/13/2023

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 In	put Low Heat Input	Lot-	# C001131822323	AWS D	1.8	High Heat Input	Low Heat Input	
	79.5 kJ/in	31.4 kJ/in		Mechanical Properties	Requiren	nents	79.5 kJ/in	31.4 kJ/in	
Voltage	26.5	28		Test Reference #			PD9095	PD9094	
Current (amps)	215	275							
WFS (ipm)	240	380							
Travel Speed (ipm)	4.3	14.7		Tensile Strength (psi)	70,0	00	80,000	97,000	
Stick Out	3/4"	3/4"		Yield Strength (psi)	58,0	00	71,000	93,000	
# of passes	8	18		Elongation (%)	22		29	24	
# of layers	4		. A	verage Charpy V-notch	10		0.07	100	
Preheat Temp. %	300+/-25 500+/ 50	200 ± 25	In	ipact Properties ft•lbs @	40		207	122	
Interpass Temp. *F	30017-30	16		+70 °F					
vveid Position	50	10							
Test Settings	High Heat In	put Low Heat Input	Lot-	# Z610662028101	AWS D	1.8	High Heat Input	Low Heat Input	
	81.4 kJ/in	29.2 kJ/in	_	Mechanical Properties	Requiren	nents	81.4 kJ/in	29.2 kJ/in	
Voltage	26.5	28		Test Reference #			PD3162	PD3177	
Current (amps)	215	275							
WFS (ipm)	240	365							
Travel Speed (ipm)	4.2	15.8		Tensile Strength (psi)	70,0	00	75,000	88,000	
Stick Out	5/8	3/4		Yield Strength (psi)	58,0	00	64,000	84,000	
# of passes	0	19		Elongation (%)	22		31	22	
# of layers	300+/-25	5 RT		verage Charpy V-holon	40		270	115	
Internass Temp ^o F	500+/-50	200+/-25		+70 °F	40		210	115	
Weld Position	3G	1G							
Test Settings High Heat Input I ow Heat Input				Lot- # G04580			High Heat Input	Low Heat Input	
Test octaings	84.6 k.l/in	31.2 k.l/in	LOU	Mechanical Properties		1.8 nents	84.6 k.l/in	31.2 k.l/in	
	26.5	28		Test Reference #			PE5645	PE5653	
Vollage	20.0	275					1 200 10		
W/FS (inm)	240	365							
Travel Speed (ipm)	3.8	14.7		Tensile Strength (psi)		00	76.000	85,000	
Stick Out	3/4"	3/4"		Yield Strength (psi)	58.0	00	66.000	81.000	
# of passes	8	19		Elongation (%)	22		29	26	
# of layers	4	7	A	verage Charpy V-notch					
Preheat Temp. °F	300+/-25	5 RT	In	Impact Properties ft•lbs @			135	136	
Interpass Temp. °F	500+/-50) 200+/-25		+70 °F					
Weld Position	3G	1G							
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		G04580		HB6475			4.7 (ml/100g)		
7 Day Exposure		G04580		HB6509		7.8 (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").

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