



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 Input	Low Heat Input	Lot- # C001131822323	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.5 kJ/in	31.4 kJ/in	Mechanical Properties		79.5 kJ/in	31.4 kJ/in
			Test Reference #		PD9095	PD9094
Voltage	26.5	28	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	80,000 71,000 29 207	97,000 93,000 24 122
Current (amps)	215	275				
WFS (ipm)	240	380				
Travel Speed (ipm)	4.3	14.7				
Stick Out	3/4"	3/4"				
# of passes	8	18				
# 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- # Z610662028101	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	81.4 kJ/in	29.2 kJ/in	Mechanical Properties		81.4 kJ/in	29.2 kJ/in
			Test Reference #		PD3162	PD3177
Voltage	26.5	28	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	75,000 64,000 31 270	88,000 84,000 22 115
Current (amps)	215	275				
WFS (ipm)	240	365				
Travel Speed (ipm)	4.2	15.8				
Stick Out	5/8"	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- # G04580	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	84.6 kJ/in	31.2 kJ/in	Mechanical Properties		84.6 kJ/in	31.2 kJ/in
			Test Reference #		PE5645	PE5653
Voltage	26.5	28	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	76,000 66,000 29 135	85,000 81,000 26 136
Current (amps)	200	275				
WFS (ipm)	240	365				
Travel Speed (ipm)	3.8	14.7				
Stick Out	3/4"	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				

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)

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James Owens, Quality Assurance Specialist



Product: Tri-Mark TM-771
Diameter: 1/16"
Shielding Gas: C1 (100% CO2)
Current/Polarity: DCEP
Classification: E71T-1C; E71T-12CJ H8
Specification: AWS A5.20/A5.20M:2025
Test Completed: 3/12/2026

Certificate of Conformance

For AWS D1.8/D1.8M, Seismic Supplement

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Test Settings	High Heat Input	Low Heat Input	Lot- # K02985	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.4 kJ/in	31.4 kJ/in			80.4 kJ/in	31.4 kJ/in
			Mechanical Properties			
			Test Reference #		PF2231	PF2230
Voltage	25	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	73,000 63,000 30 260	75,000 67,000 27 202
Current (amps)	220	260				
WFS (ipm)	170	210				
Travel Speed (ipm)	4.1	14.7				
Stick Out	3/4"	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- # K03208	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	79.8 kJ/in	29.4 kJ/in			79.8 kJ/in	29.4 kJ/in
			Mechanical Properties			
			Test Reference #		P2227	PF2226
Voltage	25	26	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	70,000 60,000 29 263	79,000 69,000 25 154
Current (amps)	227	264				
WFS (ipm)	175	220				
Travel Speed (ipm)	4.3	14.1				
Stick Out	3/4"	3/4"				
# of passes	8	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- # K02719	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.6 kJ/in	29.8 kJ/in			80.6 kJ/in	29.8 kJ/in
			Mechanical Properties			
			Test Reference #		PF2269	PF2233
Voltage	25	28	Tensile Strength (psi) Yield Strength (psi) Elongation (%) Average Charpy V-notch Impact Properties ft•lbs @ +70 °F	70,000 58,000 22 40	70,000 61,000 31 224	79,000 71,000 26 168
Current (amps)	215	261				
WFS (ipm)	170	230				
Travel Speed (ipm)	4	13.8				
Stick Out	3/4"	3/4"				
# of passes	8	18				
# of layers	4	8				
Preheat Temp. °F	300+/-25	RT				
Interpass Temp. °F	500+/-50	200+/-25				
Weld Position	3G	1G				

Diffusible Hydrogen - Tested in accordance with AWS A5.20/A5.20M, Clause 16 & Extended Exposure - in accordance with AWS D1.8/D1.8M

Condition	Lot - #	Test Reference #	Average (ml/100g)
As Received	K02719	HB9065	7 (ml/100g)
7 Day Exposure	K02719	HB9087	5 (ml/100g)

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