Product: Tri-Mark TM-771
Diameter: .045”
Shielding Gas: C1 (100% CO2)
Current/Polarity: DCEP
Classification: E71T-1C; E71T-12CJ H8
Specification: AWS A5.20/A5.20M:2025
Test Completed: 7/06/2026

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

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Test Settings	High Heat Input	Low Heat Input	Lot- # K03748	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.7 kJ/in	31.4 kJ/in	Mechanical Properties		78.7 kJ/in	31.4 kJ/in
			Test Reference #		PF2861	PF2862
Voltage	25	26				
Current (amps)	210	240				
WFS (ipm)	340	450	Tensile Strength (psi)	70,000	74,400	87,700
Travel Speed (ipm)	4	11.9	Yield Strength (psi)	58,000	63,400	80,600
Stick Out	3/4”	3/4”	Elongation (%)	22	28	25
# of passes	8	16	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	145	117
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	113	89
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # K02668	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.7 kJ/in	32.0 kJ/in	Mechanical Properties		80.7 kJ/in	32.0 kJ/in
			Test Reference #		PF2852	PF2851
Voltage	25	26				
Current (amps)	210	240				
WFS (ipm)	340	450	Tensile Strength (psi)	70,000	74,700	87,100
Travel Speed (ipm)	3.9	11.7	Yield Strength (psi)	58,000	64,900	80,700
Stick Out	3/4”	3/4”	Elongation (%)	22	29	25
# of passes	8	16	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	163	121
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	106	108
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # K02667	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	80.6 kJ/in	31.8 kJ/in	Mechanical Properties		80.6 kJ/in	31.8 kJ/in
			Test Reference #		PF2842	PF2841
Voltage	25	26				
Current (amps)	215	245				
WFS (ipm)	360	450	Tensile Strength (psi)	70,000	73,300	84,600
Travel Speed (ipm)	4	12	Yield Strength (psi)	58,000	61,900	78,900
Stick Out	3/4“	3/4“	Elongation (%)	22	30	24
# of passes	8	16	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	154	145
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	111	119
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	K03748	HB9274	3 (ml/100g)
7 Day Exposure	K03748	HB9335	3 (ml/100g)

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James Owens, Compliance Specialist

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: 3/02/2026

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

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Test Settings	High Heat Input	Low Heat Input	Lot- # 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				
Current (amps)	215	275				
WFS (ipm)	240	380	Tensile Strength (psi)	70,000	81,000	97,000
Travel Speed (ipm)	4.3	14.7	Yield Strength (psi)	58,000	71,000	93,300
Stick Out	3/4”	3/4”	Elongation (%)	22	29	24
# of passes	8	18	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	207	122
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	144	116
Weld Position	3G	1G				

Test Settings	High Heat Input	Low Heat Input	Lot- # L00127	AWS D1.8 Requirements	High Heat Input	Low Heat Input
	78.0 kJ/in	30.8 kJ/in	Mechanical Properties		78.0 kJ/in	30.8 kJ/in
			Test Reference #		PF2145	PF2146
Voltage	26	28				
Current (amps)	200	270				
WFS (ipm)	240	365	Tensile Strength (psi)	70,000	79,000	92,000
Travel Speed (ipm)	4	14.7	Yield Strength (psi)	58,000	70,000	88,000
Stick Out	3/4”	3/4”	Elongation (%)	22	28	26
# of passes	8	19	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	211	156
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	46	119
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
	26.5	28	Test Reference #		PE5645	PE5653
Voltage	200	275				
Current (amps)	240	365				
WFS (ipm)	3.8	14.7	Tensile Strength (psi)	70,000	76,000	85,000
Travel Speed (ipm)	3/4“	3/4“	Yield Strength (psi)	58,000	66,000	81,000
Stick Out	8	19	Elongation (%)	22	29	26
# of passes	4	7	Average Charpy V-notch			
# of layers	300+/-25	RT	Impact Properties ft•lbs @ +70 ºF	40	135	136
Preheat Temp. ºF	500+/-50	200+/-25				
Interpass Temp. ºF	3G	1G	Impact Properties ft•lbs @ +0 °F	40	50	91
Weld Position						

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	L00127	HB8958	3 (ml/100g)
7 Day Exposure	L00127	HB9045	8 (ml/100g)

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James Owens, Compliance 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	Mechanical Properties		80.4 kJ/in	31.4 kJ/in
Voltage	25	26	Test Reference #		PF2231	PF2230
Current (amps)	220	260				
WFS (ipm)	170	210	Tensile Strength (psi)	70,000	73,000	75,000
Travel Speed (ipm)	4.1	14.7	Yield Strength (psi)	58,000	63,000	67,000
Stick Out	3/4”	3/4”	Elongation (%)	22	30	27
# of passes	8	19	Average Charpy V-notch			
# of layers	4	7	Impact Properties ft•lbs @ +70 ºF	40	260	202
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	101	90
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	Mechanical Properties		79.8 kJ/in	29.4 kJ/in
Voltage	25	26	Test Reference #		PF2227	PF2226
Current (amps)	227	264				
WFS (ipm)	175	220	Tensile Strength (psi)	70,000	70,000	79,000
Travel Speed (ipm)	4.3	14.1	Yield Strength (psi)	58,000	60,000	69,000
Stick Out	3/4”	3/4”	Elongation (%)	22	29	25
# of passes	8	20	Average Charpy V-notch			
# of layers	5	8	Impact Properties ft•lbs @ +70 ºF	40	263	154
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	107	132
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	Mechanical Properties		80.6 kJ/in	29.8 kJ/in
Voltage	25	28	Test Reference #		PF2269	PF2233
Current (amps)	215	261				
WFS (ipm)	170	230	Tensile Strength (psi)	70,000	70,000	79,000
Travel Speed (ipm)	4	13.8	Yield Strength (psi)	58,000	61,000	71,000
Stick Out	3/4“	3/4“	Elongation (%)	22	31	26
# of passes	8	18	Average Charpy V-notch			
# of layers	4	8	Impact Properties ft•lbs @ +70 ºF	40	224	168
Preheat Temp. ºF	300+/-25	RT				
Interpass Temp. ºF	500+/-50	200+/-25	Impact Properties ft•lbs @ +0 °F	40	133	134
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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James Owens, Compliance Specialist