E71T-9M-H8

E71T1-M21A2-CS1-H8

Carbon Steel / Gas Shielded / Flux Cored

FEATURES

- Intended for single and multiple pass welding of carbon steels, such as ASTM A36, A285, A515-Gr
- The arc is a small to medium droplet size spray, with a slightly soft transfer.
- steel welding.
- machinery, agricultural equipment, and earthmoving machinery.

CONFORMANCES

E71T-1C-H8 AWS A5.20 E71T-1M-H8 E71T-9C-H8

E71T1-C1A2-CS1-H8 **AWS A5.36**

E71T-1C-H8 **ASME SFA 5.20**

E71T-1M-H8 E71T-9C-H8 E71T-9M-H8

0.045 in (1.2 mm), (100% CO2) **AWS D1.8**

0.045 in (1.2 mm), (75% Ar/25% CO2)

0.052 in (1.3 mm), (100% CO2)

0.052 in (1.3 mm), (75% Ar/25% CO2)

1/16 in (1.6 mm), (100% CO2)

1/16 in (1.6 mm), (75% Ar/25% CO2)

70, and A516-Gr 70.

Well suited for general fabrication and structural

Typical applications include shipbuilding, mining

POSITIONS



0.035 (0.9), 0.045 (1.2), 0.052 (1.3), 1/16 (1.6)

SHIELDING GAS

DIAMETERS (in (mm))

75-80% Ar/Balance CO2, 100% CO2 Flow Rate: 40 - 50 CFM

POLARITY

Direct Current Electrode Positive (DCEP)

TYPICAL WELD DEPOSIT CHEMISTRY (WT%)

Shielding Gas	С	Mn	P	S	Si
100%CO2	0.04	1.20	0.013	0.009	0.51
75%Ar / 25%CO2	0.05	1.44	0.012	0.009	0.62

TYPICAL MECHANICAL PROPERTIES

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ 0°F (-20°C) ft-lb (J)	CVN @ -20°F (-30°C) ft-lb (J)
100%CO2	85 (586)	73 (503)	30	As-Welded	-	57 (77)	36 (49)
75%Ar / 25%CO2	91 (627)	82 (566)	27	As-Welded	-	70 (95)	66 (89)



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Notice: Be sure to follow all your employers safety practices, policies and procedures when using this product. Refer to CSA W117.2 and ANSI Z49.1 Safety in Welding, Cutting and Allied Processes for further information and the manufactures SDS sheet. The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	100% CO2	All Positions	275 (7.0)	120	23	1/2 - 5/8 (13 - 16)
0.035 (0.9 mm)		All Positions	320 (8.1)	135	24	1/2 - 5/8 (13 - 16)
		All Positions	420 (10.7)	160	26	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	465 (11.8)	180	27	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	570 (14.5)	200	29	5/8 - 3/4 (16 - 19)
	100% CO2	All Positions	200 (5.1)	145	23	1/2 - 5/8 (13 - 16)
0.045 (1.2 mm)		All Positions	235 (6.0)	160	24	1/2 - 5/8 (13 - 16)
		All Positions	300 (7.6)	185	26	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	375 (9.5)	215	27	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	440 (11.2)	235	29	5/8 - 3/4 (16 - 19)
0.052 (1.3 mm)	100% CO2	All Positions	170 (4.3)	155	23	5/8 - 3/4 (16 - 19)
		All Positions	200 (5.1)	175	24	5/8 - 3/4 (16 - 19)
		All Positions	250 (6.4)	225	26	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	310 (7.9)	250	27	3/4 - 1 (19 - 25)
		Flat & Horizontal	395 (10.0)	280	29	3/4 - 1 (19 - 25)
1/16 (1.6 mm)	100% CO2	All Positions	125 (3.2)	165	23	5/8 - 3/4 (16 - 19)
		All Positions	150 (3.8)	195	24	5/8 - 3/4 (16 - 19)
		All Positions	185 (4.7)	225	26	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	265 (6.7)	280	27	3/4 - 1 (19 - 25)
		Flat & Horizontal	325 (8.3)	320	29	3/4 - 1 (19 - 25)

^{*} WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance

For 75-80%Ar-Balance CO2 shielding gas, decrease voltage by 1 to 1.5 volts

APPROVALS

Agency	Approval	Shielding Gas	Diameter(s) in (mm)
ABS	3YSA	C1 (100%CO2)	0.045 (1.2) - 1/16 (1.6)
	313A	M21 (75%Ar / 25%CO2)	0.045 (1.2) - 1/16 (1.6)
DNV	III VMC	C1 (100%CO2)	0.035 (0.9) - 1/16 (1.6)
	III YMS	M21 (75%Ar / 25%CO2)	0.035 (0.9) - 1/16 (1.6)

PACKAGING (lbs (kgs))

33 (15) Spools, 60 (27.2) Coils, 500 (226.8) Round Drum, 800 (362.9) Hex Drum, 900 (408.2) Hex Drum

STORAGE AND HANDLING

All products should be stored in original packaging, in dry conditions and handled with care. For more information refer to our website.



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^{*}Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.