

Carbon Steel / Gas Shielded / Flux Cored

**PRODUCT DATA SHEET** 

E70T-9M-H8

### **FEATURES**

- This product is designed to produced perfectly flat horizontal, equal legged fillets, with no double bead effect
- Beads can be "stacked" in a horizontal fillet with no drooping or roll on the bead surface.
- Ideal for those structural welds or general fabrications where bead geometry and cosmetics are of primary importance.

#### CONFORMANCES

AWS A5.20 E70T-1C-H8 E70T-1M-H8 E70T-9C-H8

**AWS A5.36** E70T1-C1A2-CS1-H8 E70T1-M21A2-CS1-H8

**ASME SFA 5.20** E70T-1C-H8

E70T-1M-H8 E70T-9C-H8 E70T-9M-H8

AWS D1.8 1/16 in (1.6 mm), (100% CO2) 1/16 in (1.6 mm), (75% Ar/25% CO2)

3/32 in (2.4 mm), (100% CO2) 3/32 in (2.4 mm), (75% Ar/25% CO2)

5/64 in (2.0 mm), (100% CO2)

# **DIAMETERS (in (mm))**

1/16 (1.6), 5/64 (2.0), 3/32 (2.4)

## **POSITIONS**



## **SHIELDING GAS**

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	0.06	1.56	0.006	0.010	0.58
75%Ar / 25%CO2	0.06	1.68	0.007	0.009	0.70

### **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	89 (614)	74 (510)	26	As-Welded	-	43 (58)	35 (47)
75%Ar / 25%CO2	94 (648)	81 (559)	24	As-Welded	-	30 (41)	24 (33)



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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)
0.045 (1.2 mm)	100% CO2	Flat & Horizontal	250 (6.4)	175	24	5/8 (16)
		Flat & Horizontal	340 (8.6)	205	27	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	440 (11.2)	235	29	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)	100% CO2	Flat & Horizontal	235 (6.0)	245	24	3/4 (19)
		Flat & Horizontal	280 (7.1)	275	27	3/4 - 1 (19 - 25)
		Flat & Horizontal	325 (8.3)	320	29	3/4 - 1 (19 - 25)
5/64 (2.0 mm)	100% CO2	Flat & Horizontal	145 (3.7)	280	25	1 (25)
		Flat & Horizontal	190 (4.8)	320	27	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	230 (5.8)	365	29	1 - 1 1/4 (25 - 32)
3/32 (2.4 mm)	100% CO2	Flat & Horizontal	120 (3.0)	275	25	1 1/4 (32)
		Flat & Horizontal	150 (3.8)	335	27	1 1/4 - 1 1/2 (32 - 38)
		Flat & Horizontal	165 (4.2)	400	29	1 1/4 - 1 1/2 (32 - 38)

<sup>\*</sup> WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance

For 75-80% Ar/Balance CO2, reduce the voltage by 1 to 1.5 volts.

#### **APPROVALS**

Agency	Approval	Shielding Gas	Diameter(s) in (mm)	
ABS	E70T-1C	C1 (100%CO2)	1/16 (1.6) - 3/32 (2.4)	
CIMID CCA IMAG 22	E490T1-C1A3-CS1-H8	C1 (100%CO2)	0.045 (1.2) - 3/32 (2.4)	
CWB CSA W48-23	E490T1-M21A3-CS1-H8 (E492T-9M-H8)	M21 (75%Ar / 25%CO2)	0.045 (1.2) - 3/32 (2.4)	

# 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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<sup>\*</sup>Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.