Select 730

Carbon Steel / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

FEATURES

CONFORMANCES

 This product is optimized for superblact transference of transfer	barge construction, and general plate fabrication.	AWS D1.8	E71T-9M-H8 0.045 in (1.2 mm), (100% CO2)
 This product is optimized for superblact transfer characteristics with 75-80% Ar/Balance CO2 E71T-1M-H8 shielding gas, but may also be used with 100% CO2, with the transfer mode being small droplets and resembling molten metal spraying onto the weld puddle. All-position weldability, with minimal spatter and excellent bead geometry. Mechanical properties are excellent with either gas, CVN impact values are particularly good at 	• • •		E71T-1M-H8
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characteristics with 75-80% Ar/Balance CO2 E71T-1M-H8 shielding gas, but may also be used with 100% CO2, E71T-9C-H8 with the transfer mode being small droplets and E71T-9C-H8 resembling molten metal spraying onto the weld E71T-9M-H8		AWS A5.36	
This was due to a stimulated for some of an AWS A5 20 F71T-1C-H8	shielding gas, but may also be used with 100% CO2, with the transfer mode being small droplets and resembling molten metal spraying onto the weld	AWS A5.20	E71T-9C-H8

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

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	Cr	Cu	Mn	Мо	Ni	Р	S	Si	V
100%CO2	0.04	0.04	0.04	1.25	0.00	0.02	0.008	0.010	0.63	0.02
75%Ar / 25%CO2	0.05	0.04	0.04	1.50	0.00	0.02	0.008	0.009	0.78	0.02

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	86 (590)	78 (534)	29	As-Welded	-	108 (146)	89 (121)
75%Ar / 25%CO2	92 (638)	84 (576)	28	As-Welded	-	110 (149)	88 (119)



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.

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0.045 in (1.2 mm), (100% CO2) 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)

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
		All Positions	200 (5.1)	145	23	1/2 - 5/8 (13 - 16)
		All Positions	235 (6.0)	160	24	1/2 - 5/8 (13 - 16)
0.045 (1.2 mm)	100% CO2	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)
		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)
0.052 (1.3 mm)	100% CO2	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)
		All Positions	125 (3.2)	165	23	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)		All Positions	150 (3.8)	195	24	5/8 - 3/4 (16 - 19)
	100% CO2	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)

RECOMMENDED WELDING PARAMETERS

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

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

APPROVALS

Agency	Approval	Shielding Gas	Diameter(s) in (mm)	
ABS	3YSA	M21 (75%Ar / 25%CO2)	0.045 (1.2) - 1/16 (1.6)	
ABS	313A	C1 (100%CO2)	0.045 (1.2) - 1/16 (1.6)	
DNV	III YMS (H10) (C1)	C1 (100%CO2)	0.045 (1.2) - 1/16 (1.6)	
	III YMS (H10) (M21)	M21 (75%Ar / 25%CO2)	0.045 (1.2) - 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 *Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.

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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