# Select 110C-M2

Low Alloy / Gas Shielded / Metal Cored

#### **PRODUCT DATA SHEET**

FEATURES	CONFORMANCES	
<ul> <li>Arc transfer is a stable, fine droplet spray with virtually no spatter generation especially as %Ar</li> </ul>	AWS A5.28	E110C-G-H4
increases in the shielding gas blend.	AWS A5.23	F10A2-ECG-G-H4
<ul> <li>Intended for single and multiple pass welding of structural steel and fabrications utilizing high strength, low alloy steels, such as HY-100, ASTM</li> </ul>		F11A5-ECG-G-H4
A514, A633, and A710.	ASME SFA 5.28	E110C-G-H4
• Typical applications include low temperature storage tanks, offshore drilling rigs, shipbuilding, and construction machinery where excellent low-		

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

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

#### POSITIONS



#### SHIELDING GAS

75-92%Ar/Balance CO2, 95-98%Ar/Balance O2 Flow Rate: 40 - 50 CFM

temperature toughness is required.

#### POLARITY

Direct Current Electrode Positive (DCEP)

#### **TYPICAL WELD DEPOSIT CHEMISTRY (WT%)**

Shielding Gas	С	Cr	Cu	Mn	Мо	Ni	Р	S	Si	V
75%Ar / 25%CO2	0.05	0.06	0.05	1.70	0.41	1.85	0.008	0.011	0.69	0.01
92%Ar / 8%CO2	0.05	0.06	0.05	1.80	0.43	1.83	0.008	0.010	0.76	0.01

#### **TYPICAL MECHANICAL PROPERTIES**

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ -20°F (-30°C) ft-lb (J)	CVN @ -60°F (-50°C) ft-lb (J)
75%Ar / 25%CO2	119 (821)	106 (731)	22	As-Welded	-	38 (52)	32 (43)
92%Ar / 8%CO2	121 (834)	106 (731)	21	As-Welded	-	32 (43)	25 (34)



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.

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.045 (1.2 mm) 75% Ar/25% CO2		Flat & Horizontal	260 (6.6)	200	23	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	305 (7.7)	220	24	1/2 - 5/8 (13 - 16)
	Flat & Horizontal	360 (9.1)	240	25.5	5/8 - 3/4 (16 - 19)	
	Flat & Horizontal	405 (10.3)	255	27	5/8 - 3/4 (16 - 19)	
0.052 (1.3 mm) 75% Ar/25% CO2	Flat & Horizontal	235 (6.0)	215	23	5/8 - 3/4 (16 - 19)	
	Flat & Horizontal	315 (8.0)	260	24	5/8 - 3/4 (16 - 19)	
	Flat & Horizontal	330 (8.4)	275	25.5	3/4 - 1 (19 - 25)	
	Flat & Horizontal	345 (8.8)	295	27	3/4 - 1 (19 - 25)	
1/16 (1.6 mm) 75% Ar/25% CO2	Flat & Horizontal	200 (5.1)	250	23	5/8 - 3/4 (16 - 19)	
	750/ 4-/050/ 000	Flat & Horizontal	245 (6.2)	290	24	5/8 - 3/4 (16 - 19)
	75% AF/25% CO2	Flat & Horizontal	275 (7.0)	310	25.5	3/4 - 1 (19 - 25)
		Flat & Horizontal	285 (7.2)	330	27	3/4 - 1 (19 - 25)

#### **RECOMMENDED WELDING PARAMETERS**

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

Welding parameters are for 75% Ar /25% CO2, at higher levels of argon the voltage should be gradually decreased: ½-1 volt for 85% Ar/15% CO2, 1-1 ½ volts for 90% Ar/10% CO2, and 1-2 volts for 95% Ar/5% CO2 & 98% Ar/2% O2.

### 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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600 Enterprise Drive, P.O. Box 259, Fort Loramie, Ohio 45845-0259 • 800-341-5215 • www.Select-Arc.com