# Select 70C-8

Carbon Steel / Gas Shielded / Metal Cored

#### **PRODUCT DATA SHEET**

#### **FEATURES**

## • This product is intended for single and limited multiple pass welding of carbon steels, in horizontal fillet and flat position applications.

- Select 70C-8 is ideal for those difficult-to-weld items such as heavily rusted and scaled surfaces or when the steel is coated with oil or paint, as it has special deoxidation that makes it very effective when welding over these surfaces or other contaminants.
- There are several advantages over welding with solid electrodes; increased travel speeds, better fusion into base material and sidewalls, and the virtual elimination of subsurface porosity.
- Strength levels and CVN toughness make it well suited for welding ordinary and fine grained steels such as ASTM A36, A285, A516, Grade 70 and A515 Grade 70.
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### DIAMETERS (in (mm))

1/16 (1.6), 7/64 (2.8)

#### POSITIONS



#### SHIELDING GAS

75-95% Ar / Balance 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
75%Ar / 25%CO2	0.05	0.06	0.05	1.62	0.003	0.03	0.010	0.010	0.70	0.008
TYPICAL MECHAN	NICAL P	ROPER <sup>.</sup>	<b>FIES</b>							
	Tensile	. Y	ield					CV	N @	

Shielding Gas	Strength Streng		Elongation	Weld	PWHT	-20°F (-30°C)
	ksi (MPa) ksi (MF		(%)	Condition	Temp	ft-lb (J)
75%Ar / 25%CO2	92 (634)	81 (559)	28	As-Welded	-	60 (81)



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.

#### CONFORMANCES

E70C-6M

ASME SFA 5.18

**AWS A5.18** 

AWS A5.36

E70C-6M

E70T15-M20A2-CS1

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	75% Ar/25% CO2	Flat & Horizontal	200 (5.1)	250	25	5/8 - 3/4 (16 - 19)
4/40 (4.0 mm)		Flat & Horizontal	245 (6.2)	290	26	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)		Flat & Horizontal	275 (7.0)	310	27.5	3/4 - 1 (19 - 25)
		Flat & Horizontal	285 (7.2)	330	29	3/4 - 1 (19 - 25)
		Flat & Horizontal	90 (2.3)	380	25	1 - 1 1/4 (25 - 32)
7/04 (0.0 mm)		Ar/25% CO2	28	1 - 1 1/4 (25 - 32)		
7/64 (2.8 mm)	75% Af/25% CO2		1 1/4 - 1 1/2 (32 - 38)			
		Flat & Horizontal	160 (4.1)	580	30	1 1/4 - 1 1/2 (32 - 38)

#### **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.

#### 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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