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 MECHAI	NICAL P	ROPER	FIES							

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ -20°F (-30°C) 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.

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

CONFORMANCES

E70C-6M

E70T15-M20A2-CS1

ASME SFA 5.18

AWS A5.18

AWS A5.36

E70C-6M

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
1/16 (1.6 mm)	75% Ar/25% CO2	Flat & Horizontal	200 (5.1)	250	25	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	245 (6.2)	290	26	5/8 - 3/4 (16 - 19)
		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)
7/64 (2.8 mm)	75% Ar/25% CO2	Flat & Horizontal	90 (2.3)	380	25	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	125 (3.2)	490	28	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	145 (3.7)	535	29	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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