# Select 80C-W

Low Alloy / Gas Shielded / Metal Cored

### **FEATURES**

- Intended for welding of weathering type structural steels such as ASTM A242 and A588, where the coloring and corrosion resistance are required.
- These steels are typically used in bridges, transmission towers and poles, and some building construction.
- Pure spray transfer with nearly no spatter present.

# DIAMETERS (in (mm))

0.035 (0.9), 0.045 (1.2), 0.052 (1.3), 1/16 (1.6)

# 

## SHIELDING GAS

75-80% Ar/Balance CO2 Flow Rate: 40 - 50 CFH

#### POLARITY

Direct Current Electrode Positive (DCEP)

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

Shielding Gas	С	Cr	Cu	Mn	Ni	Р	S	Si	V
75%Ar / 25%CO2	0.05	0.61	0.63	1.07	0.68	0.005	0.010	0.36	0.005

# **TYPICAL MECHANICAL PROPERTIES**

Shielding Gas	Tensile Shielding Gas Strength S ksi (MPa) ks		Elongation (%)	Weld Condition	PWHT Temp	CVN @ -20°F (-30°C) ft-lb (J)
75%Ar / 25%CO2	85 (589)	72 (499)	27	As-Welded	-	34 (46)



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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AWS A5.28

CONFORMANCES

E80C-W2-H4

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.035 (0.9 mm)	75% Ar/25% CO2	Flat & Horizontal	345 (8.8)	170	25	1/2 - 5/8 (13 - 16)
		Flat & Horizontal 425 (10.8) 190 26		26	1/2 - 5/8 (13 - 16)	
		Flat & Horizontal 475 (12.1) 210 27.5		27.5	5/8 - 3/4 (16 - 19)	
		Flat & Horizontal	570 (14.5)	225	29	5/8 - 3/4 (16 - 19)
0.045 (1.2 mm)	75% Ar/25% CO2	Flat & Horizontal	260 (6.6)	200	25	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	305 (7.7)	220	26	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	360 (9.1)	240	27.5	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	405 (10.3)	255	29	5/8 - 3/4 (16 - 19)
0.052 (1.3 mm)	75% Ar/25% CO2	Flat & Horizontal	235 (6.0)	215	25	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	315 (8.0)	260	26	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	330 (8.4)	275	27.5	3/4 - 1 (19 - 25)
		Flat & Horizontal	345 (8.8)	295	29	3/4 - 1 (19 - 25)
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)

#### **RECOMMENDED WELDING PARAMETERS \*\***

\* WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance \*\*The parameters listed are recommended starting points of operation and the ranges for amperage, wfs, and voltage could be extended based on fitness for application. For products with "all-position" capability, as determined and listed in classification, the position recommendation can be determined based on operator skill and material thickness and isn't limited to the listing.

#### **APPROVALS**

Agency	Approval	Shielding Gas	Diameter(s) in (mm)	
CWB CSA W48-23	E550T15-M20A2-W2-H4	M20 (90%Ar / 10%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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