# Select ER70S-3NC

Carbon Steel / Gas Shielded / Solid

#### **FEATURES**

- A copper free carbon steel, solid "MIG wire" electrode, for gas shielded arc welding.
- Moderate levels of manganese and silicon reduces silicate slag on weld deposit which minimizes postweld cleanup.
- Copper free technology results in reduced copper fumes, no copper flaking, crisp arc starts, and a reduction of spatter.
- Intended for welding carbon steels, such as ASTM A36, A515, A516, and A572.
- Smaller diameters (1/16" or smaller) can be pulse welded in all positions.

# DIAMETERS (in (mm))

0.035 (0.9), 0.045 (1.2)

#### POSITIONS



#### SHIELDING GAS

100% CO2, 75-95% Ar/Balance CO2, 95-98% Ar/Balance O2 Flow Rate: 40 - 50 CFM

## POLARITY

DCEP

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

Shielding Gas	С	Cr	Cu	Mn	Мо	Ni	Р	S	Si	V
N/A	0.07	0.02	0.02	1.29	<0.01	0.01	0.01	0.02	0.70	<0.01

## **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)
_	100%CO2	74 (510)	61 (421)	30	As-Welded	-	59 (80)



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.

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

#### CONFORMANCES

#### AWS A5.18

ER70S-3

PRODUCT DATA SHEET

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	90% Ar/10% CO2	Flat & Horizontal	380 (9.7)	175	25	3/8 - 5/8 (10 - 16)
0.035 (0.9 mm)		Flat & Horizontal	450 (11.4)	230	27	3/8 - 5/8 (10 - 16)
		Flat & Horizontal	550 (14.0)	250	29	1/2 - 3/4 (13 - 19)
		Flat & Horizontal	625 (15.9)	275	30	1/2 - 3/4 (13 - 19)
		Flat & Horizontal	310 (7.9)	240	26	1/2 - 5/8 (13 - 16)
0.045 (1.2 mm)	90% Ar/10% CO2	Flat & Horizontal	375 (9.5)	275	28	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	450 (11.4)	325	29	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	550 (14.0)	375	30	5/8 - 3/4 (16 - 19)

#### **RECOMMENDED WELDING PARAMETERS**

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

\*For higher argon blends such as 98%Ar/2%O2, decrease the voltage by 1 - 3 volts. For higher levels of CO2, increase voltage by 1-3 volts.

## 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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