

Select 75

Carbon Steel / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

FEATURES

- This product utilizes a lime-fluoride, or (chemically) basic slag, as opposed to the acidic, or rutile, slag systems of the E7XT-1 electrodes.
- Basic slags produce weld deposits which are low in oxygen, have low diffusible hydrogen levels, and exhibit outstanding mechanical properties.
- Arc transfer is a large droplet, globular mode.
- Intended for structural welding and plate fabrications of carbon steels, such as ASTM A36, A285, A515 Gr. 70, and A516 Gr. 70.
- Typical applications include earthmoving equipment, mining machinery, cranes, and boom sections.

CONFORMANCES

AWS A5.20

E70T-5C-H4

E70T-5M-H4

DIAMETERS (in [mm])

0.045 (1.2), 1/16 (1.6), 3/32 (2.4)

POSITIONS



SHIELDING GAS

75-80% Ar / Balance CO₂, 100% CO₂

Flow Rate: 40 - 50 CFM

POLARITY

Direct Current Electrode Positive (DCEP)

TYPICAL WELD DEPOSIT CHEMISTRY (WT%)

Shielding Gas	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V
100%CO ₂	0.05	0.03	0.04	1.26	0.01	0.01	0.007	0.008	0.38	0.00
75%Ar / 25%CO ₂	0.05	0.03	0.04	1.29	0.00	0.01	0.010	0.011	0.40	0.00

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)
100%CO ₂	77 (531)	65 (448)	30	As-Welded	-	70 (95)
75%Ar / 25%CO ₂	81 (559)	67 (462)	30	As-Welded	-	103 (140)



Revision: 9/19/2022

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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RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.045 (1.2 mm)	100% CO2	Flat & Horizontal	275 (7.0)	160	25	5/8 (16)
		Flat & Horizontal	350 (8.9)	190	27	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	435 (11.0)	220	29	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)	100% CO2	Flat & Horizontal	250 (6.4)	265	25	3/4 (19)
		Flat & Horizontal	280 (7.1)	290	27	3/4 - 1 (19 - 25)
		Flat & Horizontal	315 (8.0)	315	29	3/4 - 1 (19 - 25)
3/32 (2.4 mm)	100% CO2	Flat & Horizontal	145 (3.7)	320	25	1 1/4 (32)
		Flat & Horizontal	160 (4.1)	345	27	1 1/4 - 1 1/2 (32 - 38)
		Flat & Horizontal	170 (4.3)	370	29	1 1/4 - 1 1/2 (32 - 38)

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

For 75-80% Ar/Balance CO2, reduce the voltage by 1 to 1.5 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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