Low Alloy / Gas Shielded / Flux Cored

**PRODUCT DATA SHEET** 

## **FEATURES**

- Formulated to match the mechanical properties and corrosion resistance of certain presssure vessel steels
- Good welder appeal with excellent bead profile and low spatter levels
- Manganese-molybdenum alloying make this a well suited filler metal for joining steels such as:ASTM A302 Gr. B, A49, A291, and A735.

#### CONFORMANCES

**AWS A5.29** 

E90T1-D3C

## **DIAMETERS** (in [mm])

1/16 (1.6), 5/64 (2.0), 3/32 (2.4)

### **POSITIONS**



## **SHIELDING GAS**

100%CO2

Flow Rate: 40 - 50 CFM

#### **POLARITY**

Direct Current Electrode Positive (DCEP)

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

Shielding Gas	С	Mn	Мо	P	S	Si
100%CO2	0.07	1.38	0.47	0.01	0.01	0.19

## **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%CO2	96 (662)	84 (582)	24	As-Welded	-	33 (45)



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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.

#### RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	100% CO2	Flat & Horizontal	235 (6.0)	245	24	3/4 (19)
1/16 (1.6 mm)		Flat & Horizontal	280 (7.1)	275	27	3/4 - 1 (19 - 25)
		Flat & Horizontal	325 (8.3)	320	29	3/4 - 1 (19 - 25)
	100% CO2	Flat & Horizontal	145 (3.7)	280	25	1 (25)
5/64 (2.0 mm)		Flat & Horizontal	190 (4.8)	320	27	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	230 (5.8)	365	29	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	120 (3.0)	275	25	1 1/4 (32)
3/32 (2.4 mm)	100% CO2	Flat & Horizontal	150 (3.8)	335	27	1 1/4 - 1 1/2 (32 - 38)
		Flat & Horizontal	165 (4.2)	400	29	1 1/4 - 1 1/2 (32 - 38)

<sup>\*</sup> WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance

# 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

#### **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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<sup>\*</sup>Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.