Select 120C

Low Alloy / Gas Shielded / Metal Cored

PRODUCT DATA SHEET

FEATURES

• Formulated without chromium to achieve a high strength with no concern of hexavalent chromium in the welding fume.

- Pure spray transfer with virtually no spatter
- Ideal for joining low alloy, high strength steels such as HY-100 and A514.
- Typical applications of these steels include earthmoving equipment, mining trucks and machinery, and heavy equipment trailers.
- This electrode may also be used for overlay or surfacing in certain applications.

DIAMETERS (in (mm))

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

POSITIONS



SHIELDING GAS

98% Ar / 2% O2, 90% Ar / 10% CO2 Flow Rate: 40 - 50 CFM

POLARITY

Direct Current Electrode Positive (DCEP)

TYPICAL WELD DEPOSIT CHEMISTRY (WT%)

Shielding Gas	С	Cr	Mn	Мо	Ni	Р	S	Si
90%Ar / 10%CO2	0.08	0.05	2.01	0.43	2.17	0.005	0.008	0.28
98%Ar / 2%O2	0.11	0.05	1.98	0.43	2.23	0.005	0.009	0.28

TYPICAL MECHANICAL PROPERTIES

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ -60°F (-50°C) ft-lb (J)
90%Ar / 10%CO2	124 (855)	106 (731)	20.7	As-Welded	-	33 (45)
98%Ar / 2%O2	133 (917)	118 (814)	20.5	As-Welded	-	35 (47)



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.

CONFORMANCES

AWS A5.28

E120C-G

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.045 (1.2 mm) 98%		Flat & Horizontal	260 (6.6)	200	24	1/2 - 5/8 (13 - 16)
	000/ 4-/00/ 00	Flat & Horizontal	305 (7.7)	220	25	1/2 - 5/8 (13 - 16)
	98% Ar/2% O2	Flat & Horizontal	360 (9.1)	240	26	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	405 (10.3)	255	28	5/8 - 3/4 (16 - 19)
0.052 (1.3 mm)		Flat & Horizontal	235 (6.0)	215	24	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	315 (8.0)	260	25	5/8 - 3/4 (16 - 19)
	98% Ar/2% O2	Flat & Horizontal	330 (8.4)	275	26	3/4 - 1 (19 - 25)
		Flat & Horizontal	345 (8.8)	295	28	3/4 - 1 (19 - 25)
1/16 (1.6 mm) 98% A		Flat & Horizontal	200 (5.1)	250	24	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	245 (6.2)	290	25	5/8 - 3/4 (16 - 19)
	98% Ar/2% O2	Flat & Horizontal	275 (7.0)	310	26	3/4 - 1 (19 - 25)
		Flat & Horizontal	285 (7.2)	330	28	3/4 - 1 (19 - 25)

RECOMMENDED WELDING PARAMETERS

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

Add 1 volt to the values shown above if welding with 90% Ar / 10% 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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