# SelectAlloy 308L-C

Stainless Steel / Gas Shielded / Metal Cored

#### **PRODUCT DATA SHEET**

#### **FEATURES**

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#### CONFORMANCES

•	Low carbon (C), < 0.03 wt%, minimizes carbide	AWS A5.22	EC308
	precipitation (sensitization) which makes the weld metal more resistant to intergranular corrosion.		EC308L
•	Metal cored benefits include the ability to successfully bridge gaps when part fit up is not as designed, higher travel speeds with subsequent	ASME SFA 5.22	EC308 EC308L
•	lower heat inputs at equal amperages, and ability to join thin materials. Applications for this alloy type include welding	AWS A5.39	F75A8-EC308L-308

austenitic alloys of similar composition, 301, 302, 304, 304L, 308, and 308L. These alloys are commonly found in chemical, paper, textile, food service equipment, and pharmaceutical industries.

# DIAMETERS (in (mm))

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

# POSITIONS



# SHIELDING GAS

Ar + 0.5-3% CO2, Ar + 0.5-3% O2 Flow Rate: 40 - 50 CFM

#### POLARITY

Direct Current Electrode Positive (DCEP)

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

Shielding Gas	С	Cr	Cu	Mn	Мо	Ni	Р	S	Si
98%Ar / 2%O2	0.03	20.10	0.15	1.44	0.09	10.20	0.021	0.004	0.50
Ferrite WRC 1992	Result 7 FN								

# TYPICAL MECHANICAL PROPERTIES

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp
98%Ar / 2%CO2	83 (572)	57 (393)	38	As-Welded	-



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.

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	98% Ar/2% CO2	Flat & Horizontal	450 (11.4)	170	21	1/2 (13)
0.025 (0.0 mm)		Flat & Horizontal	515 (13.1)	185	23	1/2 (13)
0.035 (0.9 mm)		Flat & Horizontal	560 (14.2)	200	24	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	655 (16.6)	205	26	1/2 - 5/8 (13 - 16)
	98% Ar/2% CO2	Flat & Horizontal	325 (8.3)	220	22	1/2 - 5/8 (13 - 16)
0.045 (4.0		Flat & Horizontal	375 (9.5)	235	23	1/2 - 5/8 (13 - 16)
0.045 (1.2 mm)		Flat & Horizontal	420 (10.7)	250	24	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	500 (12.7)	270	26	5/8 - 3/4 (16 - 19)
	98% Ar/2% CO2	Flat & Horizontal	225 (5.7)	265	21	5/8 - 3/4 (16 - 19)
1/10 (1.0		Flat & Horizontal	300 (7.6)	305	23	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)		Flat & Horizontal	330 (8.4)	335	24	3/4 - 1 (19 - 25)
		Flat & Horizontal	375 (9.5)	350	26	3/4 - 1 (19 - 25)

# **RECOMMENDED WELDING PARAMETERS**

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

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# **APPROVALS**

Agency	Approval	Shielding Gas	Diameter(s) in (mm)
CWB CSA W48-23	EC308L	N/A	0.035 (0.9) - 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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