

#### DESCRIPTION

Executive 316L wire is designed to provide clean and consistent welds with excellent feedability and minimal clean-up. By maintaining tight control from the country of melt to the design of the spool Executive wire provides welders with the highest quality stainless bare wire.

Executive 316L is a molybdenum bearing alloy which increases pitting corrosion resistance.

#### APPLICATIONS & FEATURES

Executive 316L is used in pressure piping, vessel manufacturing, and general manufacturing and fabrication and has a maximum carbon level of 0.03% which enhances the resistance to intergranular corrosion.

#### TYPICAL WIRE CHEMISTRY & MECHANICAL PROPERTIES

C	Cr	Ni	Mo	Mn	Si	P	S	Cu	N	
0.012	18.29	11.35	2.52	1.55	0.56	0.023	0.003	0.13	0.068	
<b>Tensile Strength:</b>		80,700 PSI min		<b>Yield Strength:</b>		55,000 PSI min		<b>Elongation:</b>		40%

#### TYPICAL WELDING PARAMETERS

Process	Diameter	Voltage	Amperage	Gas Flow	Shielding Gas / Flux
<b>GMAW</b> - Short  - Spray	.035"	21-22	160-200	30 to 50 CFH	90% He/7.5% Ar/2.5% CO <sub>2</sub> or 1%-5% O <sub>2</sub> /Balance Ar
	.045"	22-23	180-210		
	.062"	23-24	200-220		
	.035"	23-25	190-260		
	.045"	25-28	250-330		
	.062"	28-31	310-350		
<b>GTAW</b>	.062" - .125"	Direct Current; Electrode -		30 to 40 CFH	100% Ar
<b>SAW</b>	.093"	29-32	300-350		Record IND 24 or Record IN
	.125"	29-32	400-550		

#### STANDARD PACKAGING

<b>GMAW</b> (MIG)	33-lb wire baskets	1,980-lb pallet
	11-lb plastic spools	11-lb box
	2-lb plastic spools	8-lb box
<b>GTAW</b> (TIG)	10-lb plastic tube	40-lb box
<b>SAW</b>	60-lb wire coil	1,200-lb pallet

#### CLASSIFICATION

AWS/SFA 5.9, Class **ER316L**  
Certified by the Canadian Welding Bureau (CWB) to AWS A5.9.

