



#### DESCRIPTION

**Executive 317L** is the same as ER317, except for the lower carbon content (0.03% max.). This wire is used for welding stainless steels with similar composition. Due to its higher molybdenum content this alloy offers higher resistance to pitting and crevice corrosion than ER316L, particularly in acid chlorine containing environments. Low carbon makes the weld metal less susceptible to intergranular corrosion. This low-carbon alloy, however, may not be as strong at elevated temperatures as the columbium (niobium)-stabilized alloys.

#### TYPICAL CHEMICAL VALUES

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
0.02	19.0	13.5	3.3	1.6	0.4	0.02	0.02	0.75

#### WELDING PARAMETERS

PROCESS	SIZE	VOLTS	AMPS	SPEED OF WELDING / GAS FLOW	SHIELDING GAS / FLUX
SAW	.093	29 - 32	300 - 350	20 - 30 IPM	Record IN Flux
	.125	29 - 32	400 - 550	20 - 30 IPM	Record IN Flux
	.156	29 - 32	500 - 650	20 - 30 IPM	Record IN Flux
GMAW	.035	29 - 33	160 - 180	30 - 50 CFH	98/99% Ar + 2/1% O <sub>2</sub>
	.045	29 - 33	180 - 220	30 - 50 CFH	or
	.062	29 - 33	210 - 250	30 - 50 CFH	97% Ar + 3% CO <sub>2</sub>
GTAW	.093	Direct Current; Electrode -		30 - 40 CFH	100% Ar

#### MECHANICAL PROPERTIES

Tensile Strength:	84,500 PSI	580 MPA
Yield Strength:	58,000 PSI	400 MPA
Elongation:	35%	

#### CLASSIFICATION

Wire chemistry has been optimized for best performance and conforms to **AWS/SFA 5.9, Class ER317L**, and is certified by the Canadian Welding Bureau to AWS A5.9. ISO 14343A, Class 18 15 3 L and ISO 14343B, Class SS317L.