





## 308L

**DESCRIPTION:** Weldcote Metals 308L has the same analysis as type 308 except the carbon content has been held to a maximum of .03% to reduce the possibility of intergranular carbide precipitation. Ideal for welding Types 304L, 321, and 347 stainless steels. This is a suitable wire for applications at cryogenic temperatures.

**APPROVALS:** Manufactured under Quality System approved by ASME, 1S09001. Meets AWS 5.9 Class ER308L. Approved by Canadian Welding Bureau.

## **CHEMICAL COMPOSITION**

## **MECHANICAL PROPERTIES**

Carbon	0.030	Tensile Strength	
Manganese	1.000-2.500		) MPA
Silicon	0.300-0.650		
Chromium	19.500-21.000	Yield Strength	
Nickel	9.000-11.000	57,000 PSI 390	) MPA
Molybdenum	0.300		
Sulfur	0.020	Elongation 409	6
Phosphorus	0.030	O	
Copper	0.300		

## WELDING PARAMETERS

Speed of Welding

a)	MIG WELDING:	Direct current; Electrode +Ve	
	Shielding Gas	98/99% Argon + 2/1% Oxygen	
		97% Argon + 3% CO2	
	Gas Flow	30 to 50 CFH	
	Voltage	29 to 33	
	Amperage	160/180 for .035" (0.9mm)	
		180/220 for .045" (1.14mm)	
		210/250 for .062" (1.6mm)	
<b>b</b> )	TIG WELDING:	Direct Current; Electrode -Ve	
	Shielding Gas	100% Argon	
	Gas Flow	30 to 40 CFH	
c)	c) <u>SUB-ARC WELDING:</u> Direct Current; Electrode + Ve		
	Voltage	29 to 32	
	Amperage	300 to 350 for 3/32" (2.5mm)	
		400 to 550 for 1/8" (3.14mm)	
		500 to 650 for 5/32" (4.0mm)	

Weldcote Metals believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Weldcote Metals can not make any expressed or implied warranty as to this information.

20 to 30 IPM (500 to 750mm)/min.