





## **308LSi**

**<u>DESCRIPTION:</u>** Weldcote Metals 308LSi, a stainless steel welding wire for TIG, MIG, and submerged arc welding. This wire is used to weld equipment made with 304 and 308 stainless grades. Welding speed is higher than 308 or 308L due to improved wettability of weld metal.

<u>APPROVALS:</u> Manufactured under Quality System approved by ASME, IS09001. Meets AWS 5.9 Class ER308LSi. Approved by Canadian Welding Bureau.

CHEMICAL COMPOSITION		MECHANICAL PROPERTIES	
Carbon Manganese	0.030 1.000-2.500	<b>Tensile Strength</b> 86,500 PSI	600 MPA
Silicon Chromium Nickel	0.650-1.000 19.500-21.000 9.000-11.000	Yield Strength 59,000 PSI	410 MPA
Sulfur Phosphorus	0.020 0.030	Elongation	39%
Molybdenum	0.300		
Copper	0.300		

## WELDING PARAMETERS

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)	TIG WELDING:	Direct Current; Electrode -Ve
	Shielding Gas	100% Argon
	Gas Flow	30 to 40 CFH
c)	<b>SUB-ARC WELDING:</b>	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)
	Speed of Welding	20 to 30 IPM (500 to 750mm)/min.