







<u>DESCRIPTION</u>: Weldcote Metals 317L is used for welding stainless steels with similar composition. Due to its higher molybdenum content this alloy offers high resistance to pitting and crevice corrosion. Low carbon makes the weld metal less susceptible to inter granular corrosion.

APPROVALS: Manufactured under Quality System approved by ASME, IS09001. Meets AWS 5.9 Class ER317L. Approved by Canadian Welding Bureau.

CHEMICAL COMPOSITION		MECHANICAL PROPERTIES	
Carbon Manganese	0.030 1.000-2.500	Tensile Strength 84,500 PSI	580 MPA
Silicon Chromium Nickel	0.300-0.650 18.500-20.000 13.000-15.000	Yield Strength 58,000 PSI	400 MPA
Molybdenum Sulfur Phosphorus Copper	3.000-4.000 0.020 0.030 0.300	Elongation	35%

WELDING PARAMETERS

a)	MIG WELDING:	Direct current; Electrode +Ve
	Shielding Gas	98/99% Argon + 2/1% Oxygen

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97% Argon + 3% CO2

30 to 50 CFH Gas Flow Voltage 29 to 33

Amperage 160/180 for .035" (0.9mm)

180/220 for .045" (1.14mm) 210/250 for .062" (1.6mm)

TIG WELDING: Direct Current; Electrode -Ve b)

> Shielding Gas 100% Argon Gas Flow 30 to 40 CFH

SUB-ARC WELDING: Direct Current; Electrode + Ve c)

> 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.

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.