



<u>308</u>

<u>DESCRIPTION:</u> Weldcote Metals 308 is used for TIG, MIG, and submerged arc welding of unstabilized stainless steels such as Types 301, 302, 304, 305, 308. This filler metal is the most popular grade among stainless steels, used for general purpose applications where corrosion conditions are moderate. Can also be certified as ER308H.

APPROVALS: Manufactured under Quality System approved by ASME, IS09001. Meets AWS 5.9 Class ER308. Approved by Canadian Welding Bureau.

CHEMICAL COMPOSITION MECHANICAL PROPERTIES Carbon 0.080 **Tensile Strength** 1.000-2.500 Manganese 88,500 PSI 610 MPA Silicon 0.300 - 0.650Chromium 19.500-21.000 **Yield Strength** Nickel 9.000-11.000 59,500 PSI 410 MPA 0.300 Molybdenum Sulfur 0.020**Elongation** 39% Phosphorus 0.030 Copper 0.300

WELDING PARAMETERS

LLDING	IAKAMETEKS	
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)	SUB-ARC WELDING:	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.

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.