WELDWIRE COMPANY, INC.

Technical Information

Deposited All Weld Metal Properties % (AW)

Deposited Charpy-V-Notch Impact Properties %

80,000psi

40,000psi

30%

Nickel Alloy Wire

Alloy: WWNA62 Conforms to Certification: AWS A5.14 Class: ERNiCrFe-5 ASME SFA A5.14

> Alloy: ERNiCrFe-5 (Alloy 62) Weld Process: GMAW, GTAW Welding Processes

AWS Chemical Composition Requirements

Other = 0.50 max

Deposited Chemical Composition % (Typical)

Ni = 73.0 Cr = 15.5 Nb = 2.2 Not applicable

Fe = 8.0

Si = 0.35 max

Application

ERNiCrFe-5 is used primarily for gas tungsten arc and gas metal arc matching composition base metals. It is also used for welding Inconel 601 and Incoloy 800. It can be used to weld dissimilar metal combinations such as steel, stainless steel, Inconel and Incoloy alloys.

Recommended Welding Parameters for TIG and MIG Welding of Nickel Alloys

<u>Process</u>	<u>Diameter of Wire</u>	Voltage (V)	Amperage (A)	Gas
Tig	.035 inches x 36	12 -15 13 -16	60 -90 80 - 110	100% Argon 100% Argon
	1/16 inches x 36 3/32 inches x 36 1/8 inches x 36	14 - 18 15 - 20 15 - 20	90 - 130 120 -175 150 - 220	100% Argon 100% Argon 100% Argon
MIG	.035 inches .045 inches 1/16 inches	26 - 29 $28 - 32$ $29 - 33$	150 – 190 180 – 220 200 - 250	75% Argon + 25% Helium 75% Argon + 25% Helium 75% Argon + 25% Helium

Note: Other shielding Gases may be used for Mig and Tig welding. Shielding gases are chosen taking Quality, cost, and Operability into consideration.

