## WELDWIRE COMPANY, INC.

# **Technical Information**

Recommended Weld Parameters

### Nickel Alloys

Alloy: WWNiMo-7 Class: ENiMo-7 Conforms to Certification: AWS A5.11 ASME SFA A5.11

Amperage (A)

## Alloy: ENiMo-7 Weld Process: Shielded Metal Arc Weld Process (SMAW)

#### AWS Chemical Composition Requirements

C = 0.02  max	Cu = 0.50 max	Diameter of Wire Voltage	V) Flat Vertical and Overhead
Fe = 2.25  max $Co = 2.25  max$ $P = 0.04  max$ $Cr = 3.25  max$ $S = 0.03  max$ Mo	Ni = Remainder Co = 1.0 max	3/32 inches (2.4mm) 24 – 28	70 - 85 65 - 75
	Cr = 1.0 max	1/8 inches (3.2mm) $26 - 30$	85 - 110 80 - 90
	Mo = 26.0 - 30.0 W = 1.0 max	5/32 inches (4.0) 28 – 32	110 - 140 100 - 120
Other $= 0.50 \text{ max}$		3/16 inches (4.8) 28 – 32	120 – 160 110 – 130

#### Deposited Chemical Composition % (Typical)

C = 0.01	Mn = 1.20	Fe = 1.50
P = 0.01	S = 0.02	Cu = 0.35
Ni = Remainder	Cr = 0.60	Mo = 28.5

#### Deposited All Weld Metal Properties % (AW)

Tensile Strength Elongation 117,000psi 28%

### Deposited Charpy-V-Notch Impact Properties %

Not applicable

### Application

ENiMo-7 electrodes are used for welding nickel-molybdenum alloys and clad side of joints in steel clad with a nickel-moly alloy and to other nickel base alloys. These electrodes normally are used in the flat position.

