# WELDWIRE COMPANY, INC.

# **Technical Information**

Stainless Steel ElectrodesAlloy: WW320LR-16Class: E320LR-16Conforms to Certification: AWS A5.4ASME SFA A5.4

# Alloy: E320LR-16

# Weld Process: Shielded Manual Metal Arc

AWS	Chemical	Composition	Requirements
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C = 0.03 max	Si = 0.30  max
Cr = 19.0 - 21.0	P = 0.02  max
Ni = 32.0 - 36.0	S = 0.015  max
Mo = 2.0 - 3.0	Cu = 3.0 - 4.0
Nb (Cb) + Ta = 8 x C	C min – 0.40 max
Mn = 1.5 - 2.5	

#### Deposited All Weld Metal Properties % (Typical) As-Welded

Yield Strength Tensile Strength Elongation

#### 85,000psi 57,000psi 34%

## Deposited Charpy-V-Notch Impact Properties % Not Applicable

### Deposited Chemical Composition % (Typical)

Si = 0.24
P = 0.011
S = 0.014
Mo = 2.40
Cu = 3.55

#### Recommended Welding Parameters Amperage Amperage Voltage Flat Position Vertical & Overhead Diameter 3/32 24-28 70-85 65-75 1/8 26-30 85-110 80-90 5/32 28-32 110-140 100-120 3/16 28-32 120-160 110-130

## Application

E320LR-16 is similar in composition to type 320, with carbon, silicon, phosphorus, and sulfur controlled to lower limits. Columbium and manganese kept to a narrow range. Low heat input is recommended for welding.

