# WELDWIRE COMPANY, INC.

## **Technical Information**

Aluminum & Copper Welding Wire & Electrodes

Alloy: WW1100 Conforms to Certification: AWS A5.10

Class: ER1100 ASME SFA A5.10

Alloy: ER1100 Weld Process: Mig & Tig

### Recommended Operation of Welding Rods

# **AWS Chemical Composition Requirements**

Si & Fe = 0.95 max Zn = 0.10 max Cu = 0.05 - 0.20 Al = 99.00 Be = 0.0003 Other = 0.05 each - 0.15 max total

#### Deposited Chemical Composition % (Typical)

Deposited chemistry is influenced by many factors so no typical analysis can be reported.

# Deposited All Weld Metal Properties %

As-Welded

Deposited all weld metal properties are influenced by many factors such as weld process used, so no typical weld metal properties can be reported.

# Deposited Charpy-V-Notch Impact Properties %

Not applicable

Example

GMAW (Mig) GTAW (TIG)

Base metal

#### Application

Type ER1100 can be used to weld base materials types 1060, 1070, 1080, and 3003.

- The proper choice of aluminum filler metal mainly depends on the base metal properties to be achieved and Welding technique. Post weld cracking, corrosion resistance and behavior under elevated temperature also need to be taken into consideration.
- Cracking usually can be minimized by choosing a filler metal alloy of higher alloy content then the base metal.

