Aluminum & Copper Welding Wire & Electrodes
Alloy: WW5183 Conforms to Certification: AWS A5.10
Class: ER5183 ASME SFA A5.10

Alloy: ER5183
Weld Process: Mig, Tig, Electron bead, Oxyfuel Gas welding

AWS Chemical Composition Requirements
Si = 0.40 max  Cr = 0.05 - 0.25
Fe = 0.40 max  Zn = 0.25 max
Cu = 0.10 max  Ti = 0.15 max
Mn = 0.50 - 1.0  Al = Remainder
Mg = 4.3 - 5.2  Be = 0.0003
Other = 0.05 each - 0.15 max total

Recommended Operation of Welding Rods
Weld parameters are dependent upon the actual weld process being utilized.

Application
ER5183 can be used on type base materials 5083 and 5456. Not recommended for sustained elevated temperature service. Assure proper storage to avoid contamination.

- 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.

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