



Aufhauser  
Corporation  
39 West Mall  
Plainview, NY 11803  
Telephone:  
516-694-8696  
800-645-9486  
Fax:  
516-694-8690

## Aluminum Bronze A-2 Electrode

### ◆ INTRODUCTION

Aufhauser Aluminum Bronze A-2 Electrode has weld metal of higher tensile strength, yield strength, and hardness with a correspondingly lower ductility than the Aluminum Bronze A-1 (EC614). Used in ship-building, sea water applications, desalination plants, chemical industry, pump parts that are attacked by salt water (propellers, bearings, etc.).

### ◆ APPLICATIONS

- Repairing aluminum bronze and other copper alloy castings.
- High strength surfacing of wear- and corrosion-resistant bearing surfaces.

### ◆ CHEMICAL COMPOSITION

<u>Copper</u>	<u>Zinc</u>	<u>Tin</u>	<u>Manganese</u>	<u>Iron</u>	<u>Silicon</u>	<u>Nickel</u>	<u>Aluminum</u>	<u>Lead</u>
Remainder	*	*	*	2.5-5.0	1.5	*	7.5-10.0	.02

Note: Copper contains Silver. All values are maximum percentage, unless shown in range. Total other elements = .50  
\* those elements must be included in total of other elements.

### ◆ PHYSICAL and MECHANICAL PROPERTIES

Tensile Strength:	65 ksi, min.
Elongation, in 4 in.:	10%
Brinell Hardness:	140-180

### ◆ SPECIFICATIONS MEET or EXCEED

- N/A

### ◆ STANDARD SIZES AND DIAMETERS

<u>Diameters</u>	<u>Lengths</u>	<u>Amperage</u>
3/32	12"	80-100
1/8	14"	90-120
5/32	14"	120-140
3/16	14"	120-140

*Copper and its alloys require a relatively high heat input with shortened welding time. Higher preheat temperatures and faster welding rates than for steel are necessary.*

EC619: Aluminum Bronze A-2 Electrode

[www.brazing.com](http://www.brazing.com)