



ISO 9001:2015 REGISTERED  
Certificate No.: 50040 & 50415

## ERCuAl-A2 DATA SHEET

### Pinnacle Alloys ERCuAl-A2

AWS CLASS ERCuAl-A2

#### CODE AND SPECIFICATION DATA:

AWS A5.7 ASME SFA 5.7; UNS C61800

**COMMON NAME:** Aluminum Bronze

#### DESCRIPTION:

Pinnacle Alloys ERCuAl-A2 (Aluminum Bronze) is iron-bearing aluminum bronze and is generally used for joining aluminum bronzes of similar composition, manganese bronze, silicon bronze, and some copper-nickel alloys, ferrous metals and dissimilar metals. The most common dissimilar metal combinations are aluminum bronze to steel and copper to steel. This alloy is also used to provide wear-resistant and corrosion-resistant surfaces.

**DIAMETERS:** .035", .045", 1/16", 3/32", 1/8"

**WELDING POSITIONS:** All positions



#### TYPICAL DEPOSIT COMPOSITION:

	AWS Spec	Weld Metal Analysis (%)
Aluminum (Al)	8.5-11.0	8.75
Copper (Cu) <sup>a</sup>	Balance	Balance
Iron (Fe)	0.50-1.50	0.58
Lead (Pb)	0.02	0.004
Silicon (Si)	0.10	0.007
Zinc (Zn)	0.02	0.009

NOTE: Single values are maximums.

<sup>a</sup> Copper including incidental Silver

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

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**TYPICAL MECHANICAL PROPERTIES:**

	<b>AWS Spec (min)</b>	<b>GTAW As Welded</b>
Ultimate Tensile Strength	Not required	≥ 60,000 psi (415 MPa)
Hardness	Not required	130-150 HBW

**NOTICE:** The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for the use in the field. The manufacturer disclaims any warranty of merchantability of fitness for any particular purpose with respect to its products.

**CAUTION:** Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.

Pinnacle Alloys SDS sheets may be obtained on the website below.

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