



Aluminum Bronze A1

(ERCuAl-A1)

Unibraze Aluminum Bronze A1 is an iron free alloy used primarily to overlay bearings and wear-resistant surfaces that require a 125 BHN hardness and to resist corrosion, especially from salt water, metal salts and acids in varying concentrations and temperatures. It is not recommended for joining since the deposit has a tendency to be hot short. Unibraze Aluminum Bronze A1 applications include, tube sheets, valve seats, pickling hooks, impellers, chemical plants, and pulp mills.

Typical Chemical Composition

Copper*	Balance
Silicon	0.10 max.
Aluminum	6.0 – 8.50
Manganese	0.50 max.
Others	0.50 max.

*includes Silver

Typical Mechanical Properties

Tensile Strength, ksi	68 (469 MPa)
Yield Strength, ksi	28 (193 MPa)
Elongation, in 2 in.	47%
Reduction of area	53%
BHN (3000 kg)	
1/4" (6.4mm) deposit	125

Specifications

AWS A5.7 / ASME SFA5.7 Class ERCuAl-A1

Available Sizes

MIG: .035" (.9mm), .045" (1.2mm), .062" (1.6mm)