



Aluminum Bronze A3

(ERCuAl-A3)

Unibraze Aluminum Bronze A3 has a higher strength aluminum bronze used to joining and repair welding of similar compositions. Unibraze Aluminum Bronze A3 applications include, bearing overlays, hydraulic pistons, impellers, turbine runners, press rams, steel mill rolls, ceiling machine mandrels, breaker blocks, valve seats and parts, mill slippers, and cable sheaves.

Typical Chemical Composition

Copper*	Balance
Silicon	0.10 max.
Aluminum	10.0 – 11.50
Iron	2.0 – 4.50
Silicon	0.10 max.
Lead	0.02 max.
Others	0.50 max.

*includes Silver

Typical Mechanical Properties

Tensile Strength, ksi	90 (621 MPa)
Yield Strength, ksi	40 (276 MPa)
Elongation, in 2 in.	20%
Reduction of area	22%
BHN (3000 kg)	
¼" (6.4mm) deposit	166

Specifications

AWS A5.7 / ASME SFA 5.7 Class ERCuAl-A3

Available Sizes

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