





52 Brazing Alloy	Overview 52 and 52F Brazing Alloys Cadmium-Free Silver Alloys with Superior Electrical Conductivity for Poor Fit Joints and Buildup 52 and 52F Brazing Alloys are bare silver alloys that work well with an oxyacetylene torch, induction heating and furnace applications. Their unique flux coating resists breaking and chipping even if bent, to braze hard-to-reach joints. The wide plastic range makes 52 and 52F excellent for poor fit joints and buildup.	
52F Brazing Alloy	an a	
American Welding Society Welding Distributor Member		
Features/Benefits	Thin flow provides excellent capillary actionExcellent electrical conductivity	Low melting temperature
Applications	Electrical conductorsBusbarsAppliances	RegulatorsControls and switchesInstrumentation
Method of Application	Oxyacetylene torch	
Identification	52 – bare silver rod; 52F – yellow flux-coated rod	
Directions for Use	Clean materials to be joined to assure that they are free of grease, oil and jagged edges. Use a slightly carburizing flame. Heat a broad area along joint line. Keep the flame cone 1" away from filler alloy and produce a continuous fillet. Use F40 flux with 52. 52F is self-fluxing.	
Technical Specifications	Tensile Strength: 70,000 PSI (483 MPa) Melting Temperature: 1,250°F to 1,410°F (675°C to 765°C) Flux Coating Color: Yellow	
Technical Tips	Use F40 Flux when brazing with 52 or when additional flux is needed.	