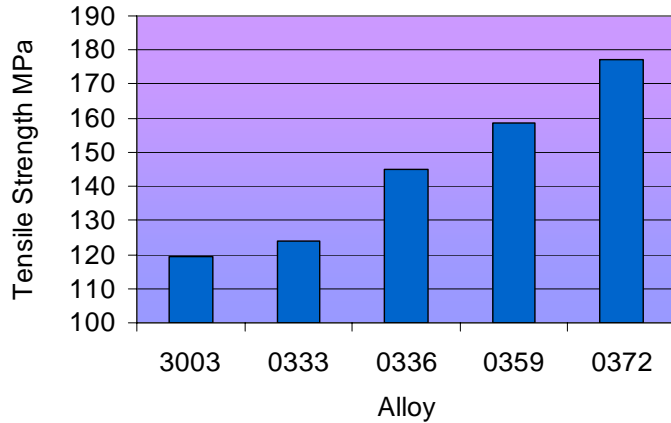
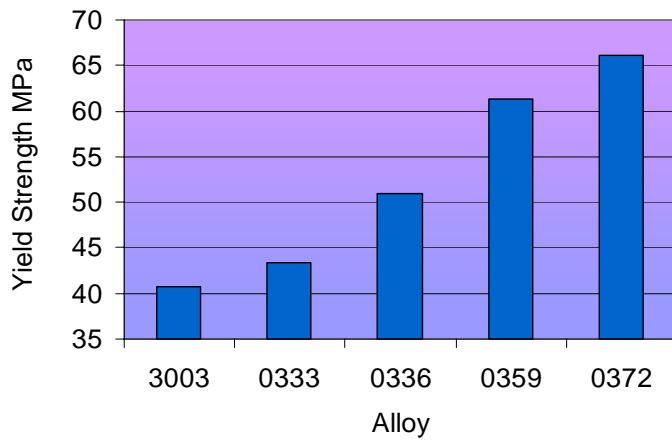


Post Braze Tensile Strength



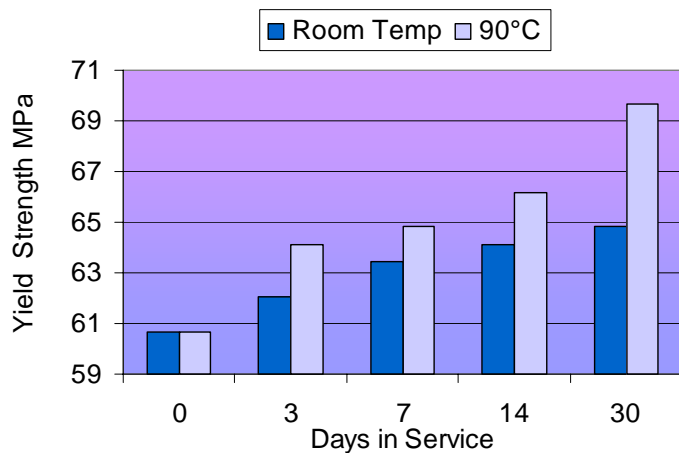
Aluminum brazing is a challenging task, requiring the selection of materials appropriate for the application. Alcoa offers a wide variety of alloys exhibiting different post-braze mechanical properties. Whether your application requires a high-strength, magnesium-containing core alloy, or a high-purity, magnesium-free core alloy, Alcoa has the right product for your application.

Post Braze Yield Strength



Alcoa recommends 0372 for thick gauge (>0.030 inch / >0.76mm) components only. Alcoa continues to develop new alloys displaying higher post-braze mechanical properties, improved resistance to corrosion, and enhanced brazeability. Contact your Alcoa representative to inquire if an Alcoa alloy can be tailored to your specific application.

Effect of Aging Temperature on 0359



Many aluminum alloys that contain magnesium exhibit age-hardening characteristics. During brazing silicon diffuses from the brazing alloy cladding into the magnesium-containing core; upon cooling, Mg₂Si precipitates in the core. Some age-hardenable alloys attain even greater mechanical properties over time through further Mg₂Si precipitation under elevated in service temperature.

ALCOA MILL PRODUCTS