

Milhaupt has developed innovative metal joining solutions to improve process efficiencies, quality, and safety for industrial original equipment manufacturers (OEMs).



We serve the aerospace, automotive, power generation, electronics, medical device and component manufacturing, and HVAC and refrigeration markets.

As a vertically integrated company, Lucas Milhaupt handles brazing alloys and metal joining materials from casting to fabrication. We offer one of the most extensive inventories of alloys and forms in the industry, including over 4,000 stock dies. Lucas Milhaupt is most well-known for providing custom solutions. Our technical expertise enables us to custom manufacture the best brazing solutions for you.

Today, Lucas Milhaupt strives to fully engage our customers and team by embracing new ideas and proactively pursuing transforming technologies.

### **SIL-FOS® FAMILY OF BRAZING ALLOYS** For Joining Copper and Copper-based Alloys.



This group of alloys allows the joining of copper to copper without a flux and copper based alloys (brass and bronze) with a flux. The family of products includes the original Sil-Fos 15. Developed and patented over 75 years ago, Sil-Fos is the work horse filler metal used in the refrigeration and air conditioning industry.



### **SILVER-BEARING LEAD-FREE SOFT SOLDERS**

High strength – general purpose solders. Higher strength than Tin/Lead solders and safe for potable water systems.

These alloys are widely used in low-stress, low-pressure copper-copper and copper-steel applications.

### **HIGH SILVER BRAZING ALLOYS**

For joining ferrous (iron based) and non-ferrous materials.

Brazing is so universally used because it is economical, easy to do and produces strong leak-tight joints. It is also a flexible process that allows you to join both similar and dissimilar metals. In refrigeration applications, much of the brazing involves joining copper tubing. However, there are numerous applications where other materials need to be joined (steel, brass, stainless steel, carbide, etc.). These high silver brazing alloys facilitate the joining of these metals.

