

Spring
A time when our
relationship can blossom.

may flowers

this be the time that your business

with Belmont



Pure metals and alloys.
Standard and custom shapes.



Belmont
M E T A L S I N C .

Belmont pure metals offer a range of memorable uses.

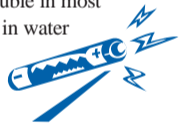
Our series on “minor” metals continues. From Iron to Molybdenum, pure metals are essential ingredients for a number of noteworthy applications. Either in pure metal or in alloys, in standard or customized shapes such as shot and polished pieces, Belmont supplies the metals you need to make your business a success.

Pure Metals

Fe Where strength and heft are required, Iron is hardly a “minor” ingredient. Iron is a major component of cast Iron, Steel, and Stainless Steel. Belmont adds Iron to a number of Copper-base alloys to act as a strengthening agent and, in some alloys, as a grain refiner. We offer a variety of Iron-Copper master alloy combinations. Our Ferro Aluminum master alloys allow for easier controlled introduction of Iron to strengthen many Aluminum alloys as well. Belmont is also a source of several grades of Iron powder that are used in a variety of chemical applications and scientific kits.

Li The lightest of all alkali metals, Lithium is about 20% the density of Aluminum. This has led to the development of specialized Lithium-Aluminum alloys that are particularly ideal for aerospace and aircraft applications.

In its pure state, Lithium is a fairly good conductor. As easy to slice as hard cheese, it melts from the heat of a match. Lithium solutions are used to maintain humidity in air conditioning and industrial drying systems. Soluble in most commercial metals, Lithium is often used in ceramics to lower softening temperatures; its insolubility in water makes it ideal for lubricant greases and soaps. Another growing use for Lithium is as a component in specialized batteries.



Featuring Because Lithium is very reactive, it is used as a scavenging agent for gases (primarily oxygen) dissolved in molten metal. Belmont manufactures 2% Lithium-Copper to remove dissolved gases from pure Copper and Copper-base alloys. Unlike most other degasifiers, Lithium-Copper does not reduce conductivity. Similarly, Lithium-Aluminum is used to clean the channels of electric furnaces.

Mg Magnesium is another light metal, at about 60% the density of Aluminum. Magnesium alloyed with Aluminum, Zinc and other metals produces alloys that combine strength with light weight ideal for such applications as chain saw housings, luggage casings and frames, and ladders. Magnesium is used increasingly in the automotive industry’s efforts to manufacture lighter cars. Other applications of this metal include pyrotechnics, rocket fuel, and cathodic protection anodes.

Belmont provides pure Magnesium ingot and sticks as well as Magnesium Aluminum master alloys for adding to Aluminum alloys to help improve heat treat response, thereby increasing alloy strength and ductility.

Mo Molybdenum is primarily used as an alloy addition to Steels to improve strength and corrosion resistance. Molybdenum-based alloys take advantage of the metal’s high melting point and elevated temperature properties, and find applications as furnace parts, thermocouples, glass melting furnace equipment, specialized electrical and electronics applications, and aircraft and missile parts. Belmont uses Molybdenum in several custom alloys.

“How Many Grams Can You Get Out of a Pound?” Trivia Question

How many grams of Lithium does a one pound piece of Belmont’s 2% Lithium-Copper Master Alloy provide?

Answer: A one pound piece provides 9 grams of Lithium and it readily goes to work without any disturbance to the melt.

Belmont provides major ingredients for your business success

We know you’ll agree that the versatility and utility of these metals makes them anything but minor in helping you create quality products. Belmont Metals provides these as pure metals and alloys in a variety of custom shapes and sizes to fulfill your specific needs.

