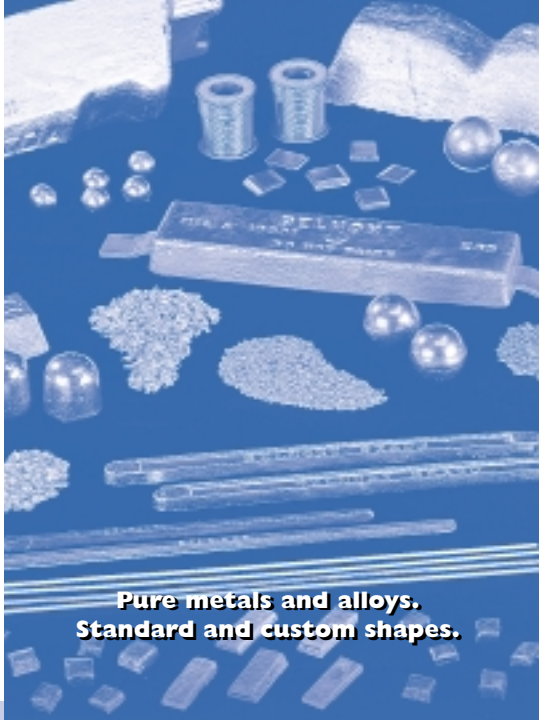
September
As business becomes brisk...

Autumn Leaves

with Belmont

your customers with a lasting impression



Belmont METALS INC.

Belmont pure metals—the foliage of successful applications.

Over the past year or so, our continuing discussion on Belmont's products has brought us to the "minor" metals. With this issue we touch on the last of the minor metal products. As pure metals or in alloys, Belmont supplies what you need to "season" your products effectively and economically.

Pure Metals *Featuring*

Se Selenium is primarily used in electronics to coat the drums of plain paper copiers, and in rectifiers and photo-voltaic cells. Metallurgical uses are as an additive to Steel and Stainless Steels to improve machinability and as an alternative to Lead in Brass plumbing alloys. Selenium is also used to counteract the natural green color of glass, to make red glass, and as a coloring agent for paints, plastics, and chemicals.

Si A brittle metal in its pure state, Silicon gives its name to the Valley that uses it as a crucial component in the familiar "computer chips" and other semiconductor products. Silicon is also a significant constituent in many Aluminum, Copper base, Steel, and Cast Iron alloys. Belmont's Silicon Bronze, Silicon Brass, and Silicon Aluminum alloys are widely used in jewelry, sculpture, and a range of industrial applications. We also supply Silicon Copper and Silicon Aluminum master alloys.

Ag Silver is an excellent conductor of both heat and electricity, and exhibits good corrosion resistance. For applications in which high conductivity and reliability are absolutely essential—such as in missile and rocket circuitry—Silver, although expensive, is usually the best choice. It was first used for coinage, then for jewelry and tableware, and is still used in these applications. Silver is an essential ingredient in photographic film, and finds additional use in electrical and electronic products, medicine and dentistry.

In the industrial arena, it is added to solders to improve strength and is used in many brazing alloys as well. Silver is added to both Copper and Aluminum in small amounts to improve both strength and conductivity. An alloy of Silver and Copper is being used in a new approach to treat and disinfect the water in swimming pools.

Te Tellurium is used primarily as an additive to Cast Iron and Steels, and to Copper alloys to improve machinability. It is added to Lead alloys to improve corrosion resistance and workability. Tellurium Lead wool is applied to fill joints between Lead bricks and plates that shield nuclear reactors and radioactive materials. Tellurium finds applications in the chemical industry and as a catalyst. Belmont manufactures a 50/50 Tellurium Copper master alloy.

Ti Titanium is as strong as Steel, but considerably lighter. Because of their high strength, relative light weight, and ability to withstand elevated temperatures up to 1000° F, high-performance Titanium alloys are major components in supersonic planes, missiles, and spacecraft. Back on the ground, the combination of strength and lightness is equally ideal for high-performance golf clubs. Titanium is also used as a grain refiner in Aluminum alloys to improve performance. Belmont provides several grades of Titanium Aluminum hardeners, both alone and in combination with Boron.

Zr Used as a corrosion resistant cladding for nuclear reactor cores and as an alloy to make chemical and surgical equipment, Zirconium is noted for its excellent ability to withstand corrosion and easy fabrication. In certain Copper base alloys, small additions of Zirconium act as a grain refiner to improve alloy performance and casting soundness. Belmont offers several Copper-Zirconium master alloys to make these additions easier.

Answer: The Lone Ranger: "Hi-Yo Silver, and away!"

Metal Mount Up Trivia Question

What famous cowboy named his horse after a pure metal?

Belmont metals help you create quality products.

We hope you've found our discussion of the pure metals illuminating and that we've provided a lot for you to reflect upon. Please contact us for further details about how Belmont pure metals and alloys can fulfill your specific needs.