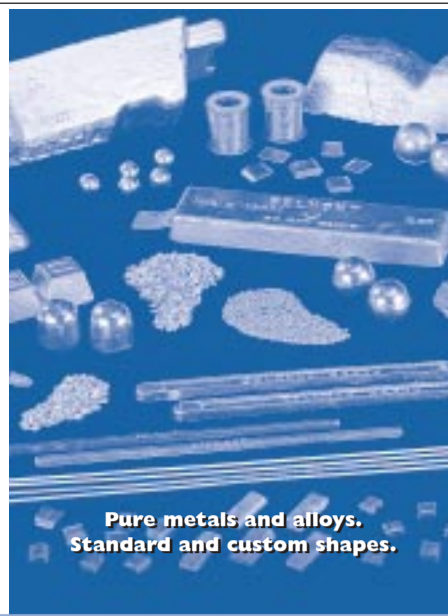


March
to the beat of new
opportunities and...

spring forward because the time is here

to develop 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 put the sparkle into your business.

Let's spring right into our continuing series on the so-called "minor" metals. From the shine of Chromium to the more obscure Gallium, these pure metals are essential components in a variety of industrial applications. Either in pure form, in alloys, or in customized shapes such as shot and pieces, Belmont supplies the ingredients you need to make brilliant products.

Pure
Metals
Featuring

Cr Most people think of Chromium, because of its attractive shininess, as a chief ingredient in Stainless Steel and as the sparkling plating used on bumpers and appliances. (Belmont provides the Copper and Nickel plating anodes that are plated before the Chrome.) But did you know that Chromium is what gives color to a variety of gems such as Emeralds, Rubies, Alexandrite, Garnet, and some Sapphires? Indeed, the name of this metal is derived from *chroma*, the Greek word for "color." Chromates in various forms provide a rainbow of yellows, greens, and oranges to tinge paints and graphics.



Belmont uses this metal to produce 1.3% Chromium Copper casting alloys as well as 5% and 10% master alloys. Chromium serves to strengthen and harden the Copper while retaining its natural high conductivity; most other high-strength Copper alloys are poor conductors.

Co Cobalt's reputation for high strength makes it popular for a variety of commercial applications in both pure and alloyed forms. Magnetic materials, super alloys, high temperature resistant alloys, tool steel, electrical-resistant alloys, and carbide cutting tools all contain varying amounts of Cobalt.

Cobalt's dependable durability makes it ideal for alloys that need to withstand high loads. For example, Belmont uses Cobalt as a strengthening agent in some of its Beryllium Copper alloys, which, among other applications, can be found in aircraft parts.

Cobalt also has two non-metallurgical uses—in one case you see it in the intense "blue" of Cobalt glass and in the other you don't as an ingredient in disappearing ink.

Cb alias **Nb** This metal answers to two different names! You can call it Columbium or Niobium, but in either case this metal is used in almost pure form (99% with 1% Zirconium) in atomic reactors. Belmont adds Columbium to produce weldable grades of Nickel Copper and Copper Nickel alloys used in submarines. These highly corrosion resistant alloys are ideal for use at sea to stave off the effects of constant exposure to salt water—they would be useless, however, if they couldn't be properly welded to protect vital ship joints and piping from failing.



Ga A relatively rare metal, Gallium has a low melting point of 85.6° F—a hot summer day is enough to turn it into liquid. Consequently, it is perfect to lower the melting point of alloys below 117°F. Some of Belmont's Bismuth-based low melting alloys contain Gallium.

Au In addition to its use in fine jewelry, dentistry, and decorative plating for plates and statues, Gold's outstanding resistance to corrosion makes it ideal for industrial applications, in particular to preserve electrical contacts from the effects of weather and acids. While Belmont doesn't sell or process Gold, our very pure Cadmium, Copper, Nickel and Zinc are widely used in Gold alloys by our valued customers in the precious metals industry.

Look for More Metals Next Issue

If It Glitters, It's Probably Gold Trivia Question

The domes of state capitols are often leafed with Gold to protect them from weathering. How thick is the gold leaf that coats these seats of government?

Answer: The gold leaf is 1/250,000th of an inch thick. That's enough to keep Old Man Weather from tarnishing a thing of beauty.

Belmont adds the extra polish to meet your needs ...

Belmont Metals offers pure metals and alloys in the custom shapes or sizes you require at prices that won't send you to Fort Knox. With over 1,000 products in inventory coupled with our lustrous reputation for metallurgical innovation, Belmont provides the vital ingredients for your business success.

