

L-1017B

**Bi: BELMONT ELEMENTAL BISMUTH****Typical End Uses**

Belmont elemental bismuth, available as commercial-grade or high-purity, can be used in the production of fusible alloys (low melting point alloys); as a carbide stabilizer in the manufacture of malleable iron; and as an additive to low-carbon steel or aluminum, to improve machinability. Compounds of bismuth are used for catalysts, in pharmaceuticals, and for semiconductor applications.

**Chemical Composition**

Commercial-grade bismuth has a typical analysis of bismuth, 99.995% (99.99% minimum); iron, 0.001% max.; lead, 0.001% max.; copper, 0.002% max.; silver, 0.001% max. Also available are 99.999% bismuth and 99.9% bismuth.

**Forms and Sizes Available**

Belmont Elemental Bismuth is available in various sizes as feathered, coarse granular, ingot, lumps, mossy, needles, pellets in specific gram weights for inoculation of malleable iron, powder, shot, sticks, and special shapes.

**BELMONT BISMUTH ALLOYS**

Belmont Bismuth Alloys feature bismuth-base low-melt alloys with melting points from 105°F to 520°F (see Belmont's LM series of data sheets for application and alloy details); and bismuth-base low-temperature solders. Standard and special compositions, including combinations, are available for:

Bismuth-Antimony  
Bismuth-CadmiumBismuth-Copper  
Bismuth-IndiumBismuth-Lead  
Bismuth-Tin**Forms and Sizes Available**

Belmont Bismuth Alloys are available in various sizes as bar, cakes, cast shapes, granular, ingot, lumps, mossy, powder, small shot, 1/4-lb. sticks, and special shapes.

— See Reverse —

**Belmont: The Non Ferrous Specialists**—Unmatched Variety of Non Ferrous Metals and Alloys—  
—Standard and Custom Compositions and Shapes—

- Casting Metals, Alloys, Additions • Joining Metals & Alloys • Low-Melting (Fusible) Alloys
- Cathodic Anodes • Plating Anodes • Wire Specialties • Chemical Metals • Mercury





