

# Lead

High Purity Metal

## Characteristics

- ✓ Corrosion-resistant
- ✓ Highly malleable
- ✓ Ductile
- ✓ Poor conductor of electricity

## Quick Facts

Molecular Formula	:	Pb
Molecular Weight	:	207.2g/mol
Density	:	11.35g/cm <sup>3</sup>
Melting Point	:	327.50°C
Boiling Point	:	1740 °C
Thermal Conductivity	:	0.353W/(mK)
Electrical Resistivity	:	20.648μΩcm (at 20 °C)
Thermal Expansion	:	28.9μm/(mK) (at 25 °C)
Young's Modulus	:	16GPa
Specific Heat	:	0.038Cal/g/K @ 25 °C

**Purity : 99.99%**

**Europium** is a chemical element with the symbol Pb and atomic number 82. Lead is a bluish-white lustrous metal. It is very soft, highly malleable, ductile, and a relatively poor conductor of electricity. It is very resistant to corrosion but tarnishes upon exposure to air. Lead isotopes are the end products of each of the three series of naturally occurring radioactive elements.

## Benefits

- ✓ Manufacture of lead-acid storage batteries
- ✓ Lead is used for covering cables and as a lining for laboratory sinks, tanks
- ✓ The "chambers" in the lead-chamber process for the manufacture of sulfuric acid
- ✓ Used extensively in plumbing
- ✓ Solders in the tin-lead system are the most widely used of all joining materials

## High Purity Lead

Available in:

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82  
**Pb**  
207.2

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