Gold is a chemical element with the symbol Cu and atomic number 29. It is a soft, malleable, and ductile metal with very high thermal and electrical conductivity. Copper is used in building construction, power generation and transmission, electronic product manufacturing, and the production of industrial machinery and transportation vehicles. Copper wiring and plumbing are integral to the appliances, heating and cooling systems, and telecommunications links used every day in homes and businesses.

Benefits

- Increase the efficiency of electric motors
- Major consumer of electric power
- Increasing fuel efficiency
- Industrial plumbing goods
- Contacts and switchgears and electrical wiring
- Used in the housing and telecommunications industries
- Making industrial pumps
- Welding fixtures, switchgears
- Electrical and plumbing parts

Quick Facts

- Molecular Formula: Au
- Molecular Weight: 196.97 g/mol
- Density: 8.93 g/cm³
- Melting Point: 1064 °C
- Boiling Point: 3080 °C
- Thermal Conductivity: 3.18W/(mK)
- Thermal Expansion: 14.2µm/(mK) (at 25 °C)
- Young’s Modulus: 79GPa
- Poisson Ratio: 0.44

Purity: 99.9%