

## Characteristics

- Corrosion-resistant
- Excellent heat conductor
- Excellent electricity conductor
- Ductile and malleable
- Good conductivity

## Quick Facts

Molecular Formula Αu

Molecular Weight 196.97 g/mol Density 19.3 g/cm3 Melting Point 1064 °C 3080°C **Boiling Point** 

Thermal Conductivity 3.18W/(mK) Thermal Expansion 14.2µm/(mK) (at 25 °C)

Young's Modulus 79GPa 0.44 Poisson Ratio

Purity: 99.9%



Gold is a chemical element with the symbol Au and atomic number 79, making it one of the higher atomic number elements that occur naturally. Chemically, gold is a transition metal and a group 11 element. Gold is one of the more beautiful precious metals with a lustrous, yellow sheen. It has a melting point of 1,064°C, a density of 19.3 g/cc, and a vapor pressure of 10-4 Torr at 1,132°C with its ideal evaporation temperature being around 1,400°C. It is soft, dense, malleable, ductile, and an excellent conductor of heat and electricity.

## **Benefits**

- Drilling equipment
- Used in deposition processes including semiconductor deposition,
- Chemical vapor deposition (CVD) and physical vapor deposition (PVD)
- Used for optics including wear protection, decorative coatings, and displays
- Used in medicine, electronic



Pieces | Rods | Shots | Chips |

Pellets | Wires | Ingots | Bars | Granules







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