

Uses of Molybdenum in Modern Life

Molybdenum is primarily used as an alloying agent to provide greater strength to other metals. Its high melting point and anti-corrosive properties make molybdenum useful for a range of industrial applications.

Aircraft & Car Parts



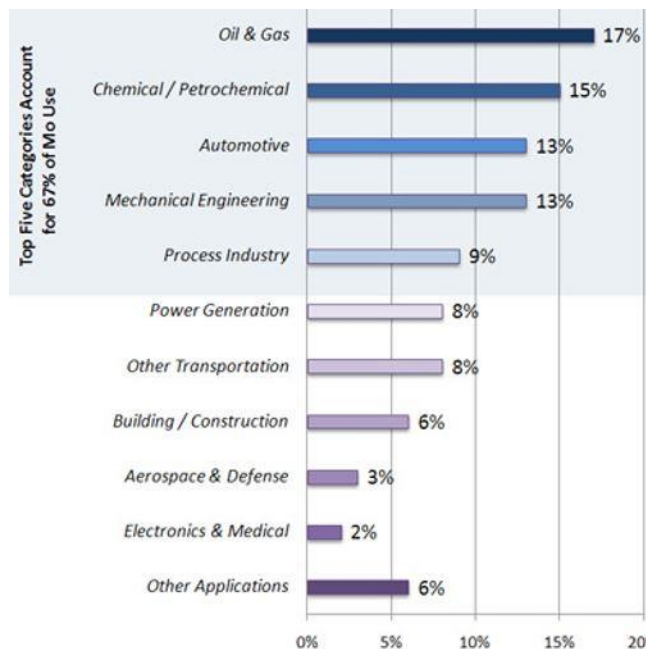
- Molybdenum alloys are found in gas turbine engines in aircraft, tanks and small power plants.
- Molybdenum helps increase fuel economy by making light-weight clutches, flywheels and other car parts.

Energy – Nuclear & Wind



- Stainless steel alloys in nuclear reactors contain around 7% molybdenum.
- Wind turbine blades contain molybdenum for strength and corrosion resistance.

Global Use by Industry



Source: Steel & Metals Market Research, Australia

Gas & Water Transmission Pipes



- Molybdenum is used in underwater oil and gas pipelines to prevent corrosion of the steel.
- Municipal water supply pipes use molybdenum to prevent rust from getting into drinking water.

Chemicals & Lubricants



- Molybdate-based pigments are used in paints and inks, plastic and rubber products, and ceramics for stable color formation and corrosion inhibition.
- Molybdenum disulfide is an effective lubricant.