

## **Answer on Question #44519 - Chemistry - Inorganic Chemistry**

### **Question:**

Why argon, nitrogen or helium are filled in an electric bulb?

### **Answer:**

The electric bulb can't be filled with air as the presence of oxygen will cause the filament to burn (react with oxygen). It also can't be made vacuum. As in vacuum condition, the filament will evaporate because of very high temperature, making the bulb unusable. The only solution to these problems is an inert gas (for example argon or helium). Nitrogen is also used like argon since it is unreactive.