



Element
47

SILVER

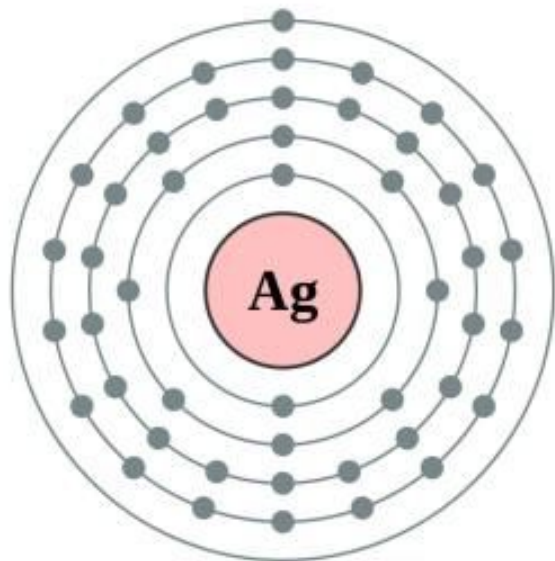
Introduction

When you take a look at the periodic table you see many elements. But, one that you probably use every day. This element was one of the first five elements discovered. This element is Silver.



47: Silver

2,8,18,18,1



STRUCTURE

Being the forty seventh atom on the periodic table, silver's atomic number is 47. So, that means that there is 47 protons in the nucleus and 47 neutrons. This also means that there are 61 electrons and 1 valence electron.

On the periodic table, silver is in group 11. Silver is apart of the transition metals. The transition metals is the biggest group of all the groups.

In regular conditions silver state of matter is a solid. Silver doesn't oxidize when it is heated. Also, silver has no flammability and will only react to polluted air. Another thing is silver won't dissolve in most mineral acids.

Silver Atom

Discovery

The name silver comes from an old English word sulfur. Silver has been known since ancient times and no one knows exactly how it was discovered. You cannot say that just one person discovered silver. It was mostly found just lying on the ground. You can find silver naturally but now it's pretty hard to find it, at least naturally.

Physical Properties of Silver

Physical properties of Silver can usually be observed using our senses or involve a numerical measurement

- Color: White
- Luster: Lustrous shine
- Ductility: It can be beaten into thin sheets
- Malleability: Capable of being shaped
- Conductivity: Excellent electrical and heat conductor
- Solubility: Has the ability to be dissolved
- Hardness: A relatively soft metal
- Density: It is a dense metal



Physical Properties include
Boiling, Freezing & Melting Points

Fun Facts!

1. Silver is slightly harder than gold
2. Silver was one of the first five metals/elements discovered
3. Silver has the highest conductivity of any of the metals

Compounds and Uses

Probably once in your lifetime you have used something silver. You are probably using silver right now. Crazy. But, silver surrounds every where. From mirrors to passports, you would be surprised by what has silver in it. Additionally, silver is a very reliable item, you use silver in your car to just a basic silver spoon.

There are many compounds to silver, but here are just a few there is silver chloride, silver bromide, and silver iodide.