

## Iron Vs Steel

Iron and steel are often referred to interchangeably, but in reality, they are quite different. To start, iron is the base element and steel is the combination of iron and carbon that creates a new compound.

Iron is easier to cast than steel due to its lower melting point. More carbon can result in a higher casting temperature which makes it more expensive to cast.

### Is iron stronger than steel or is steel stronger than iron? What's stronger: steel or iron?

Even though iron functions as a base element, on its own it is brittle and doesn't provide the same stability or magnetization that steel does.

When blended with specific compounds such as nickel or manganese, steel is able to endure a wider variety of heat temperature. This makes steel the preferred alloy for buildings and outdoor structures.

### Is metal and steel the same thing?

Steel is an alloy of iron and carbon, while metal is a broad term that describes any solid material that is malleable and conductive. In other words, all steel is metal, but not all metal is steel. The main difference between the two is that steel is an alloy, meaning it is made by combining iron and carbon.

Metal, on the other hand, can be either an alloy or a pure element.

### Why is steel better than iron?

Steel is harder and stronger than most metals, which is why it is often used in construction. However, metal is more ductile than steel, meaning it can be easily shaped and molded.