

# List of alloys

## - - List of Common Alloys Composition, Elements, Uses, Type, Properties and Examples

Standard Stainless Steel Additive Elements	
Element	Effect
Aluminum	Deoxidizes and restricts grain growth.
Boron	Increases hardenability.
Carbon	Increases hardenability and strength.
Chromium	Increases corrosion resistance, hardenability and wear resistance.
Lead	Increases machinability.
Manganese	Increases hardenability and counteracts brittleness from sulfur.
Molybdenum	Deepens hardening, raises creep strength and hot-hardness, enhances corrosion resistance and increases wear resistance.
Nickel	Increases strength and toughness.
Phosphorus	Increases strength, machinability, and corrosion resistance.
Silicon	Deoxidizes, helps electrical and magnetic properties, improves hardness and oxidation resistance.
Sulfur	Increases machinability, but damages hot forming characteristics.
Titanium	Forms carbides, reduces hardness in stainless steel.
Tungsten	Increases wear resistance and raises hot strength and hot-hardness.
Vanadium	Increases hardenability.

Description: -

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It is used for shafts, gears, axles, automobile and aero plane parts. Use: Sterling silver is used in making cutlery, jewelry, musical instruments, and different medical tools.

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One of the best known of these alloys is Alloy C-276, also sold under the trade names Hastelloy C276 ®, Nickelvac ® HC-276, Inconel ® 276, and Nicrofer ® 5716. It resists the corrosion by sea water. Use: This alloy is being used to form a permanent connection between electrical components.

## List of 5 Important Alloys

Very often 1 to 3% of lead is added to brass for improving its machining properties. Use: Brass is used in the manufacturing of decoration items, locks, zippers, gears, doorknobs, musical instruments, etc.

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This alloy, made from copper and tin, was extremely useful to our ancestors because it is much stronger and harder than its component metals. Composition Silver in its purest form is malleable, ductile and extremely soft.

## Types of Alloys and Their Uses

Bronze Bronze is the first alloy that was discovered which consists of 85-88% copper, 12-12. Brass is an alloy of copper and zinc copper content 70 to 85 per cent. As an example, Monel 400 ®, also sold under the trade names Nickelvac ® 400 or Nicorros ® 400, can find application in marine piping systems, pump shafts, and seawater valves.

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