

We have a text called "6 Tips For Preventing Rust" in front of ours eyes.

The text includes explanation what exactly called "rust", how it makes and why non-ferrous metals cannot rust. And, of course, we had being given tips to prevent rusting.

First of all, rust is the name for the orange-brown flakes of iron oxide that form on the surface of any metal containing iron that is exposed to air and water. The author says that the rusting process begins when iron reacts with oxygen in the presence of water, saltwater, acids, or other harsh chemicals.

We have learnt by text that a ferrous metal is one that contains iron and only iron can rust. Non-ferrous metals, such as aluminum and copper, contain little if any iron, and so cannot rust. Now, lets take a closer look to a "magical" 6 tips to prevent rusting.

The first and the obvious is to keep metal surfaces and air dry and clean, because it's the oxygen in water molecules that combines with iron to form iron oxide.

The second tip is to prevent scratches from happening, they are expose more metal and hold water, allowing it to remain in contact with the iron.

We can dip down metal objects into a bluing solution of water, sodium hydroxide, and potassium nitrate. It will provide strong corrosion resistance. Thats the 3rd.

Usage stainless steel instead of iron can easily solve this problem. It alloys contain iron, but it resists rust because it also contains a high percentage of chromium which oxidizes quickly to form a protective layer.

Use galvanized metal: in the galvanizing process, a piece of steel is coated with liquid zinc. The zinc protects the steel in three different ways: zinc coating acts as a barrier, cathodic protection, and it quickly forms a protective coating of zinc oxide, which prevents the iron from further oxidation.

The last one is just regular maintenancing. It's important to scrape rust off as soon as it appears and apply protective coating to prevent further oxidation.

Thats it, now we know how rusting "works" and we considered this 6 tips author showed to us.