

Characteristics of titanium alloy screws

[Titanium alloy](#) screws has its own special characteristics.

1. the density is small, the intensity is high
2. [the elastic modulus bottom](#)
3. the thermal conductivity is small
4. the [tensile strength](#) is close to its yield strength
5. no magnetic, no toxicity
6. [strong anti-damping performance](#)
7. [heat resistance, low temperature resistance](#)
8. inhalation performance
9. [corrosion resistance](#)

Titanium is a very active metal with a low equilibrium potential and a [high degree of thermodynamic corrosion](#) in the meson. In fact, titanium is very stable in many mesons, such as titanium in the oxidative, neutral and weak reduction [mesoporous corrosion resistance](#). This is because titanium and oxygen have a great affinity. In the air or oxygen-containing meson, a dense, highly adherent and inert oxide film is formed on the surface of the titanium to protect the [titanium substrate](#) from corrosion. Even if it is due to the mechanical film layer, it will quickly heal itself or re-regenerate.

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