



Titanium and Aluminum

At TiLite, You Choose

When you are considering a new chair, you have many choices. We believe that every one of those choices should be yours to make.

One of the most important choices you'll make is the material of the frame: Titanium or Aluminum.

TiLite makes the best chairs in titanium and aluminum so that you can choose what's right for you.

TITANIUM

ALUMINUM

Background

The unique properties of titanium make it an ideal material for premium wheelchair frames. Because titanium is difficult to refine and requires expertise and precision in welding and bending, it is a more costly material.

Aluminum is a widely available, user-friendly material that also has properties that make it a good fit for wheelchair frames. Aluminum is typically less costly, allowing for more flexible pricing.

Advantages and Benefits

Strong and Light. A critical property of titanium is its unparalleled strength and its high strength-to-weight ratio. This means that we use less titanium while building a stronger frame. Using less material leads to a lighter frame.

Easy to Work With. Aluminum is a lightweight material that is easy to work with and lends itself to frame design and construction. It can be bent and welded in a variety of shapes, easing the path toward customization and an optimal fit.

The Titanium Ride. Titanium has unique dampening qualities so that less vibration is transmitted to the user. The resulting smooth ride benefits the rider by minimizing bumps and jolts, reducing fatigue, and increasing comfort.

The Aluminum Ride. Aluminum is a stiff material. This stiffness helps create the ride characteristics of aluminum. A stiffer material has advantages when rolling over or climbing up smooth terrain.

Durability. Titanium does not rust or corrode. Its strength, toughness, and fatigue resistance means that the frame will take a pounding without failing. While other metals start to fatigue with repetitive use, titanium does not show signs of wear even after years of use!

Cost Benefit. Because of its availability and ease of use, aluminum is less costly. For some, even if it means forgoing the benefits of titanium, aluminum is a more affordable choice. But, do not be fooled by cheap imitations. Instead, get the best in aluminum chairs: TiLite.

TiLite's Commitment

TiLite has a singular focus and a singular goal: Make the best manual wheelchairs in the world. No compromises. No short-cuts. In pursuit of that goal, we recognize that there is nothing more important than creating choices for you. That is why we make, and will continue to make, the best chairs on the market in titanium and aluminum.