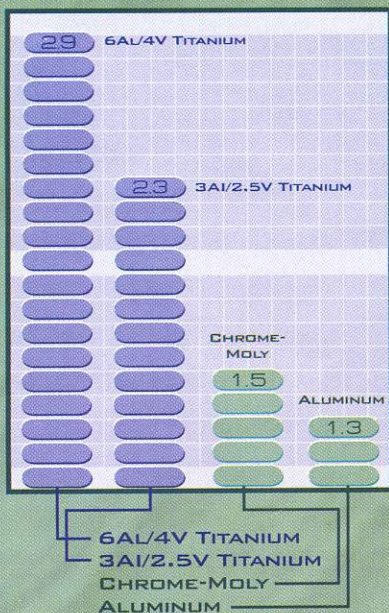






***YIELD STRENGTH/WEIGHT



The strength, lightweight, corrosion-resistant and "magical-ride" qualities of titanium outperforms even the most popular aluminum and steel materials for manufacturing bicycles. Although cyclists have asked us to compare titanium to carbon fiber, it is nearly impossible to compare any material to carbon fiber. There are no standards and too many variables among different manufacturers. Carbon is dependent on how many strands are used, what direction they are wrapped, what shapes they form and what type of glue holds them together. While many carbon fiber designs seem durable, few have longer than a 5-year warranty. Litespeed bicycles, on the other hand, have lifetime warranties.

Litespeed's winning legacy begins with titanium—certified aerospace grades 3Al-2.5V and 6Al-4V. No other material has performance characteristics more perfectly suited to cycling.

- Its strength-to-weight ratio is on average 75 percent greater than the most popular aluminum and steel materials used in cycling, allowing us to make stronger, lighter bikes.
- Its fatigue life is 5 times greater than that of steel or aluminum, so bikes last longer.
- Its molecular structure has the unique ability to dampen vibrations without deadening the overall feel of the bike, providing a "magical-ride" quality with the liveliness of high-quality steel tubes, the shock absorbency of good carbon fiber, and the stiffness of aluminum.
- Its structural design versatility allows us to combine alloys and tube sizes to create any level of stiffness desired.

Then, as if the strength, lightweight, corrosion-resistant and "magical-ride" qualities of titanium weren't already an unbeatable performance combination, we make it better, stronger, lighter. Because in more than 45 years of titanium fabricating experience, we've never been satisfied with accepting current technology. Every day we focus on advancing the state-of-the-art in cycling technology—a commitment that has helped us to develop exclusive processes for enhancing the performance characteristics of titanium.

COLD-WORKING

Litespeed is the only company in the world to extensively cold-work titanium for bicycles. Cold-working is a process of shaping titanium at room temperature, resulting in an increase of up to 45 percent in the material's strength, stiffness and hardness. This process allows us to make the world's stiffest, strongest and most durable titanium bicycle frame.

