

AerMet® 100 alloy

...delivering optimum strength and toughness with light weight.

Has been used for premium bicycle frames, including:

- road bikes
- mountain bikes
- hybrid bikes
- triathlete bikes
- track bikes
- other competition-tested bikes



AerMet® 100 alloy

- **Livelier, firmer ride** than other steel frames
- A high-strength, precipitation hardenable alloy ...**lighter than titanium** at the same strength, **stronger than titanium** at the same weight
Ultimate tensile strength: **285 ksi**
- **Tougher than tool steel**
Rockwell Hardness: **HRC 55**
Fracture Toughness: **115 ksi $\sqrt{\text{in.}}$**
- **Twice the corrosion resistance** of Type 4130 steel
- **Easy to weld, braze and solder**
- **Affordably priced**

Originally developed for landing gear of U.S. Navy carrier-based aircraft, AerMet 100 Alloy is an ideal candidate for frame material for all types of premium and competition-tested bicycles. Handlebars, handlebar stems, bottom brackets and seat posts are other potential AerMet 100 Alloy bicycle component applications.

AerMet 100 Alloy is now available as 1.00" (25.4 mm), 1.125" (28.6 mm) and 1.250" (31.8 mm) diameter straight gauge tubing with .020" (.50 mm) wall thickness for high performance bicycle frames. Tubing in 1.375" (35 mm) diameter with .026" (.66mm) wall thickness is also available for mountain and tandem bicycle frames.

CarTech offers complete technical assistance to help you take maximum advantage of AerMet 100 Alloy benefits in bicycle frames and components. Contact us for help with your special requirements.

To reach the Special Products Division in San Diego, CA, call (619) 448-1000.