

**CARPENTER TECHNOLOGY  
CORPORATION**

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**AERMET® 100 ALLOY A CANDIDATE  
FOR PERFORMANCE BIKE FRAMES, COMPONENTS**

AerMet® 100 alloy, possessing the highest combination of strength and fracture toughness of any commercially available steel, is now available as a candidate for premium bicycle framing and component applications. The alloy was developed originally by Carpenter Technology Corporation to meet the demanding specifications for landing gear of U. S. Navy carrier-based jet aircraft.

A number of premium bicycle framing and component manufacturers feel that AerMet 100 alloy tubing can deliver one of the most torque-free, strongest and best-riding bikes available.

When combined with proper design and construction geometry, AerMet 100 alloy tubing can provide improved performance per pound over other framing materials. For this reason, use of the alloy may be a key element in design optimization for a wide variety of bicycles including road bikes, mountain bikes, transition bikes, triathlete bikes, track bikes and other competition-tested bikes.

Metallurgically, AerMet 100 alloy possesses an ultimate tensile strength of 285 ksi, a Rockwell hardness of HRC 55 and a fracture toughness of 115 KSI  $\sqrt{\text{in}}$ . It's lighter than titanium at the same strength, and stronger than titanium at the same weight. It is