

## DESIGN APPLICATION



### **Recreation**

Alloys for maximum strength-to-weight ratios  
High strength thin wall joining  
Complex heat treatment

<b>WELDING APPLICATION</b>	<b>SPECIAL CONSIDERATIONS</b>	<b>COMMON BASE ALLOYS</b>	<b>WELDING ALLOY SELECTION (Most Commonly Used)</b>
<b>BICYCLE FRAMES SPORT WHEEL - CHAIRS</b>		6061 to 6061	5356
		Post weld heat-treated	4043 - 2nd 4643
		6013 to 6013 (To be Post weld heat-treated)	4643
		7005 to 7005	5356 - 2nd 5183
		7046 to 7046	5356 - 2nd 5183
		5086 to 5086	5356
<b>BASEBALL BATS</b>		7046 to 7046	5356
		7050 to 7050	4145
<b>SNOWMOBILES</b>	<b>Elevated Temperature &amp; Strength</b>	6061 to 6061	4043 - 2nd 5356
<b>LEISURE BOATS</b>	<b>Strength &amp; Corrosion Resistance</b>	5454 to 5454	5356
		5052 to 5052	5356
<b>LAWN FURNITURE</b>	<b>Weld Cosmetics &amp; Strength</b>	6063 to 6063	4043 - 2nd 5356
<b>CAST JOINTS FOR BRAZING</b>	<b>Strength &amp; Brazability</b>	710.0 to 710.0	5356
		711.0 to 711.0	5356

### **AlcoTec Wire Corporation**