

## DESIGN APPLICATION



### ***Aerospace***

Extreme temperature service  
Maximum strength-to-weight ratios  
X-ray inspection standards

<b>WELDING APPLICATION</b>	<b>SPECIAL CONSIDERATIONS</b>	<b>COMMON BASE ALLOYS</b>	<b>WELDING ALLOY SELECTION (Most Commonly Used)</b>
<b>STRUCTURAL</b>	Strength-to-Weight Ratio, Extreme Temperature, Service life	2219 to 2219 2014 to 2014 2024 to 2024 7075 to 7075 2090 to 2090	2319 4145 Special Considerations Special Considerations 2319
<b>MISSILE / AERO CASTINGS</b>	Strength-to-Weight Ratio	A357 to 357.0	357.0
<b>AEROSPACE HARDWARE</b>	Strength-to-Weight Ratio	6061 to 6061 6013 to 6013 If Anodized Post weld heat-treated	4043 - 2nd 5356 4043 - 2nd 5356 5356 4643 - 2nd 4043
<b>TURBINE BLADES AND TORQUE CONVERTERS</b>	Strength, Extreme Temperature, Service life	711.0 to 711.0	5356
<b>SPACE CRAFT CAST SECTIONS</b>	Strength, Extreme Temperature	201.0 to 201.0	2319
<b>CASTINGS, FITTINGS, &amp; AIRCRAFT</b>	High Strength	355.0 to 355.0	4009 (C355)

### **AlcoTec Wire Corporation**

2750 Aero Park Drive · Traverse City, MI 49686 USA · Phone (231) 941-4111  
Sales and Marketing Fax (231) 941-9154 · Administrative and Quality Control Fax (231) 941-1040  
E-mail: [alcotec@traverse.com](mailto:alcotec@traverse.com) Web site: [www.alcotec.com](http://www.alcotec.com)