

DESIGN APPLICATION



Aerospace

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

WELDING APPLICATION	SPECIAL CONSIDERATIONS	COMMON BASE ALLOYS	WELDING ALLOY SELECTION (Most Commonly Used)
STRUCTURAL	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
MISSILE / AERO CASTINGS	Strength-to-Weight Ratio	A357 to 357.0	357.0
AEROSPACE HARDWARE	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
TURBINE BLADES AND TORQUE CONVERTERS	Strength, Extreme Temperature, Service life	711.0 to 711.0	5356
SPACE CRAFT CAST SECTIONS	Strength, Extreme Temperature	201.0 to 201.0	2319
CASTINGS, FITTINGS, & AIRCRAFT	High Strength	355.0 to 355.0	4009 (C355)

AlcoTec Wire Corporation