

DESIGN APPLICATION



Automotive

Thin wall brazing for heat exchangers
Corrosion resistant high strength wheels
High torque drive components
Body and frame joining

<u>WELDING APPLICATION</u>	<u>SPECIAL CONSIDERATIONS</u>	<u>COMMON BASE ALLOYS</u>	<u>WELDING ALLOY SELECTION (Most Commonly Used)</u>
HEAT EXCHANGERS	Pressure Seal, Corrosion Resistance & Thin Wall Burst Pressure	3003 to 3003 3003 to 6061 6061 to 6061	4047 - 2nd 4043 4047 - 2nd 4043 4047 - 2nd 4043
WHEELS	Shear Strength, Fatigue & High Temperature	5454 to 5454 5454 to 6061 A356 to 5454	5554 5554 5554
DRIVE SHAFTS	Torque/Shear Strength & Fatigue	6061 to 6061	4043 - 2nd 5356
BUMPERS & SUPPORTS	Impact Strength, Corrosion Resistance & Extrusions	7005 to 7005 7021 to 7021 7029 to 7029	5356 5356 5356
BODY PANELS	Tensile Strength, Corrosion Resistance & Thin Wall Welding	6009 to 6009 6111 to 6111	4043 - 2nd 4047 4043 - 2nd 4047
FRAME SECTIONS	Strength & Fatigue, High Temperature	6061 to 6061	4043, 5356 5554
CYLINDER HEADS BLOCKS - PANS	High Temperature, Strength-to-Weight Ratio & Heat Transfer	A356 A380 A319	A356 & 4008 4145 4145

AlcoTec Wire Corporation