

DESIGN APPLICATION



Transportation

High quality production welding technology
Product cost optimization
Product reliability engineering

<u>WELDING APPLICATION</u>	<u>SPECIAL CONSIDERATIONS</u>	<u>COMMON BASE ALLOYS</u>	<u>WELDING ALLOY SELECTION (Most Commonly Used)</u>
FORMED TRUCK PANELS	Formability & Corrosion Resistance	5052 to 5052	5356
		5052 to 5454	5356
		5454 to 5454	5356
ENGINE BLOCKS CAST HOUSINGS	Weld Cracking	356 to 356	A356 (4010)
CYLINDER HEADS	Weld Cracking	A201.0 to A201.0	4145
		242.0 to 242.0	4145
		240.0 to 240.0	4145
FORGED PISTONS	Weld Cracking	2218 to 2218	4145
		2618 to 2618	4145
TRUCK & TRAIN PANELS	Strength, Cost Efficiency, & Fatigue	5454 to 5454	5356 - 2nd 5554(Elevated Temperature)
		5086 to 5086	5356
		5083 to 5083	5356 - 2nd 5183
CHEMICAL TANKERS	Strength & Corrosion Resistance	5254 to 5254	5654
LINE HEATERS & STEAM LINES	Strength & High Temperature	5454 to 5454	5554
TRIM	Formability, Anodize, & Polish	5050 to 5050	5356
		5005 to 5005	5356

AlcoTec Wire Corporation