

ALLOY GUIDE FOR AUTOMOTIVE PARTS

Alloy	Alloy 3	Alloy 25	Alloy 10X	Alloy 174	Alloy 190	PerforMet®	SupremEX®	ToughMet® 3
Chemical Composition	CuBe	CuBe	CuBe	CuBe	CuBe	CuNiSiCr		CuNiSn
ELECTRICAL								
EV/HEV Charge Coupler Connectors		✓		✓	✓			
Micromotor Contacts				✓	✓			
RF Connectors		✓			✓			
Switch and Electromechanical Relays				✓	✓			
Wire Harness Terminals				✓	✓			
POWERTRAIN								
Cam Follower Roller Bushings								✓
Combustion Seals								✓
Connecting Rods							✓	
Connecting Rod Bearings		✓						✓
Crankshaft Main Bearings								✓
Exhaust Valve Seats	✓		✓			✓		
Gearbox Bearings		✓						✓
Idler Bearings		✓						✓
Intake Valve Seats		✓				✓		
Needle Roller Bearing Cages								✓
Pistons							✓	
Piston Pin / Small End / Wristpin Bushings		✓						✓
Piston Rings						✓		✓
Rocker Arms							✓	
Thrustwashers								✓
Valve Guides	✓	✓	✓			✓		✓
Valve Spring Retainers							✓	
STRUCTURAL								
Brake Caliper Bushings								✓
Braking Disks							✓	
Steering Bushings								✓
Uprights							✓	

For help choosing the best material for your application, please contact our Technical Services team at 216-383-6800.

Learn more about all our [advanced materials solutions for automotives designs](#).