

Welding Material Compatibility

BASE METAL	STUD MATERIAL			
	Mild Steel 1008/1010	Stainless Steel 304/305	Aluminum 5356/6061	Brass 70-30/65-35
Mild Steel: 1006-1030	Excellent	Excellent	Not Compatible	Excellent
Medium Carbon Steel: 1030 thru 1050	Good	Good	Not Compatible	Good
Galvanized Sheet Duct or Decking	Good	Good	Not Compatible	Not Compatible
Structural Steel	Good	Good	Not Compatible	Excellent
Stainless Steel: 405/410/430 and 300 series-except 303	Excellent	Excellent	Not Compatible	Excellent
Lead-Free Brass Electrolytic Copper Lead-Free Rolled Copper	Excellent	Excellent	Not Compatible	Excellent
Most aluminum alloys of the 1000, 3000, 5000 and 6000 series	Not Compatible	Not Compatible	Excellent	Not Compatible

Excellent: The materials are very compatible and the weld is typically very strong.

Good: Generally the weld yields full strength result.

Not Compatible: The materials are not compatible and will not weld or weld strength will be unacceptable.

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