

CD STUD/BASE METAL COMBINATION WELDING CAPABILITIES

BASE WELD SURFACE MATERIAL	STUD MATERIAL			
	MILD STEEL 1008, 1010	STAINLESS 304, 305	ALUMINUM 5356, 6061	BRASS 70-30, 65-35
MILD STEEL 1006 through 1030	Excellent	Excellent	–	Excellent
MEDIUM CARBON STEEL 1030 through 1050	Good*	Good*	–	Good*
GALVANIZED SHEET DUCT OR DECKING	Excellent	Excellent	–	–
STRUCTURAL STEEL	Excellent	Excellent	–	Excellent
STAINLESS STEEL 405, 410, 430, and 330 Series, except 303	Excellent	Excellent	–	Excellent
LEAD FREE BRASS, ELECTROLYTIC COPPER, LEAD-FREE ROLLED COPPER	Excellent	Excellent	–	Excellent
MOST ALUMINUM ALLOYS OF THE 1100, 3000, 5000, and 6000 series**	–	–	Excellent	–
DIE-CAST ZINC ALLOYS	Good*	Good*	Excellent	Good*

***Good:** Generally full strength results, depending upon the combination of stud size and base metal.

** Other Materials, such as 7000 Series aluminum, titanium alloys, Inconel, etc., can be welded under specified conditions.