

Material	INVAR	KOVAR	MILD STEEL	LEAD	STAINLESS STEEL	TUNGSTEN	SILVER	GOLD	ZINC	MANGANESE	TITANIUM	PLATINUM	INCONEL	TANTALUM	MAGNESIUM	BRONZE	BERYLLIUM COPPER	PHOSPHOR BRONZE	MOLYBDENUM	BI-METAL	COPPER	ALUMINIUM & ALLOYS	YELLOW BRASS (10-25% ZINC)	RED BRASS (25-40% ZINC)	NICKEL AND ALLOYS	
INVAR	CCZ	bc	CCZ	bc	CCZ	g	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
KOVAR	CCZ	bc	CCZ	bc	CCZ	g	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
MILD STEEL	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g
LEAD	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
STAINLESS STEEL	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
TUNGSTEN	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g
SILVER	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
LEAD	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
MILD STEEL	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g	CCZ	g
KOVAR	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc
INVAR	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc	CCZ	bc

**ADDITIONAL GUIDANCE**

- a Wide range of Settings
- b Heavy Current, Short Time
- c Synchronous Welding Control Required
- d Frequent Electrode Cleaning Required
- e Low Mechanical Weld Strength
- f Inconsistent Weld Results
- g Difficult Combination
- h Light Thicknesses of Material
- i Embrittlement Occurs - May require Post-Heat Treatment

**ELECTRODE MATERIAL GUIDANCE**

CCZ Copper-Chromium Alloy  
 A940 Copper-Nickel-Silicon Dispersion Hardened Alloy  
 Mo Molybdenum - Can often be substituted by Tungsten  
 Si Silver

**WELDABILITY GUIDE**

E Excellent  
 G Good  
 P Poor  
 U Unsatisfactory



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