

EXPLOSION WELDED METAL COMBINATIONS

	Zirconium	Vanadium	Tungsten	Titanium	Tantalum	Steel alloy	Steel, mild	Steel, Stain	Silver	Rhenium	Platinum	Palladium	Niobium	Ni alloy	Nickel	Molly alloy	Molybdenum	Magnesium	Kovar	Indium	Hafnium	Gold	Copper alloy	Copper	Beryllium Cu	Al Bronze	Al alloy	Aluminum
Aluminum	X	X	X	X	X	O	X	O	X	X	X	O	X	O	O	X	X	O	O	O	X	X	X	X	O	O	X	X
Al alloy	X	X	X	X	X	O	O	O	X	X	X	O	X	O	O	X	X	O	O	O	X	X	X	X	X	O	O	X
Al Bronze	O	X	O	O	X	X	X	O	O	O	X	O	X	O	O	X	X	O	X	X	O	X	X	X	O	X		
Beryllium Cu	O	X	O	O	X	O	X	O	X	O	X	O	X	O	O	X	X	O	O	O	O	X	X	X	O			
Copper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X				
Copper alloy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X					
Gold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X						
Hafnium	O	X	X	O	X	X	X	X	X	X	X	X	X	O	O	X	X	O	X	O	X							
Indium	X	X	X	O	X	O	O	O	X	O	O	O	X	O	O	X	X	O	X	X								
Kovar	O	X	X	O	X	X	X	X	O	X	O	X	X	X	X	X	X	O	X									
Magnesium	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	X										
Molybdenum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											
Molly alloy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
Nickel	X	X	X	X	X	X	X	X	O	X	O	O	X	X	X													
Ni alloy	O	X	X	O	X	X	X	X	O	X	O	X	X															
Niobium	X	X	X	X	X	X	X	X	X	X	X	X	X															
Palladium	O	O	O	O	O	X	O	O	O	O	O	X																
Platinum	X	X	X	X	X	X	X	X	X	X	X																	
Rhenium	O	X	X	O	X	O	O	O	O	X																		
Silver	X	X	X	X	X	X	X	X	X																			
Steel, Stain	X	X	X	X	X	X	X	X																				
Steel, mild	X	X	X	X	X	X	X																					
Steel alloy	X	X	X	X	X	X																						
Tantalum	X	X	X	X	X																							
Titanium	X	X	X	X																								
Tungsten	X	X	X																									
Vanadium	X	X																										
Zirconium	X																											

METAL COMPATIBILITY CHART

- X Direct Bond, No Interlayer
- O May Require Interlayer



ELECTRONIC PACKAGES FOR EXTREME ENVIRONMENTS

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ISO 9001:2000
 ISO 9001:2000/AS9100