Material Compatibility _____ Tables _____

Weldability

The general welding properties of Studfast weld studs are given in the table. Select from the 1st column in the table your product parent material. Read across to the column corresponding to the weld stud material. The general welding properties of the 2 materials is then given to enable you to evaluate the compatibility of your selection.

Capacitor Discharge "CD" Weld Studs

Parent Material	Stud Material					
	Mild Steel	Stainless Steel	Aluminium Alloy	Pure Aluminium	Brass	
Low Carbon Mild Steel	Good	Good	Not Weldable	Not Weldable	Good	
Steel up to 0.6% carbon	Fair	Good	Not Weldable	Not Weldable	Good	
Austenitic Stainless Steel	Good	Good	Not Weldable	Not Weldable	Fair	
Zinc Coated Steel	Fair	Fair	Not Weldable	Not Weldable	Good	
Electro Galvanised Steel	Fair	Fair	Not Weldable	Not Weldable	Good	
Hot Rolled Structural Steel	Fair	Fair	Not Weldable	Not Weldable	Fair	
Aluminium Alloy	Not Weldable	Not Weldable	Good	Good	Not Weldable	
Pure Aluminium	Not Weldable	Not Weldable	Good	Good	Not Weldable	
Lead Free Brass	Good	Fair	Not Weldable	Not Weldable	Good	
Lead Free Copper	Fair	Fair	Not Weldable	Not Weldable	Good	
Leaded Brass	Not Weldable	Not Weldable	Not Weldable	Not Weldable	Not Weldable	

Drawn Arc "DA" & Short Cycle "SCDA" Weld Studs

	Stud Material				
Parent Material	Mild Steel	Stainless Steel	Zinc Plated Mild Steel		
Low Carbon Mild Steel	Good	Good	Fair		
Steel up to 0.6% carbon	Fair	Good	Fair		
Austenitic Stainless Steel	Good	Good	Fair		
Zinc Coated Steel	Fair	Fair	Fair		
Electro Galvanised Steel	Fair	Fair	Fair		
Hot Rolled Structural Steel	Fair	Fair Fair	Fair		