

Meta-Braze™ Cu93Ti

Copper based brazing Alloy for Ceramics

Meta-braze™ Cu93Ti is a high-purity Active Braze Alloy of copper, silicon, titanium and aluminium, developed for direct application to ceramic surfaces. Recommended for brazing ceramics (oxides, nitrides, carbides) to themselves and to metals. Metallizing or electroplating is not required. This alloy will produce strong hermetic joints. Typical Applications: Vacuum interrupters and other hermetically sealed components used in power generation, mechanical assemblies.

Standard	Manufacturers Own	Reference Standards ISO 3677 B-Cu93SiTiAl-958/1024
Melting Range	958°C - 1024°C	Brazing Temperature: 1025 – 1050°C
Chemical Composition	Copper 93% Silicon 3% Titanium 2.25% Aluminium 2% Impurities as per ISO 17672 Table 1	
Conditions for Use	Recommended Processes: Vacuum Brazing Recommended Gap Size: - 0.03 – 0.1mm (0.001 – 0.004”)	
Physical Properties	Density – 8.1g/cm ³ Tensile Strength – 520MPa Elongation – 42%	
Forms of Supply	Foil – Wire – Powder – Paste – Preforms	

