

Meta-Braze™ Ag59Ti

Copper based brazing Alloy for Ceramics

Meta-braze™ Ag59Ti is a high-purity Active Braze Alloy of silver, copper, indium and titanium, 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: Direct diamond brazing, alumina to Kovar, vacuum interrupters and other hermetically sealed components.

Standard	Manufacturers Own	Reference Standards ISO 3677 B-Ag59CuInTi-605/715
Melting Range	605°C - 715°C	Brazing Temperature: 715 – 740°C
Chemical Composition	Silver 59% Copper 27.25% Titanium 1.25% Indium 12.5% 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 – 9.7g/cm ³ Tensile Strength – 455MPa Elongation – 21%	
Forms of Supply	Foil – Wire – Powder – Paste – Preforms	

