

Meta-Braze™ BTi-5 Brazing Alloy

Meta-braze™ BTi-5 is a high-purity alloy of titanium, copper, nickel, and zirconium. It produces high strength, vacuum tight joints suitable for high service temperature applications, up to 500°C (600°C for short cycles). It can be used for brazing titanium alloys, ceramics, graphite, and carbon composites. This alloy is relatively new but is envisaged to find applications in R&D applications associated with the brazing of heat exchangers and thermal management devices, medical implants and devices, titanium honeycomb and fuel cells.

Product Details

Composition:	40% Ti, 20% Zr, 20% Ni, 20% Cu
Specification / Standard:	AWS A5.8 2016 BTi-5 (Main elements)
Alloy Designation:	ISO 3677 B-Ti40CuNiZr-845/865
Melting Range:	845-/865°C
Brazing Temperature:	880 – 920°C
Physical Properties:	Density - 6.68g/cm ³

Conditions For Use

Heating Method:	Vacuum brazing – consult VBC for further information
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Forms of Supply

Potential forms (subject to availability): Foil, Preformed Shapes, Paste

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