

Copper Alloy 60Ti-Active

Introduction

Aufhauser Copper Alloy 60Ti-Active is an active, brazing alloy that promotes wetting and good capillary action on several surfaces that would otherwise be difficult to join by brazing.

Applications

Brazing filler for joining or repairing metals, ceramics, diamond, graphite and or carbon-based components.

Nominal Composition, wt.%

Cu	Sn	Ti	V
59 – 61	19 – 21	17 – 19	1 – 3

Physical Properties

Parameter	In US units	In metric units
Solidus temperature	1580 °F	860 °C
Liquidus temperature	1654 °F	901 °C
Recommended brazing temperature	1634 – 1688 °F	890 – 920 °C
Recommended brazing atmosphere	10 ⁻⁵ mm Hg vacuum or inert gas	10 ⁻⁵ mm Hg vacuum or inert gas
Density	0.278 Lb/in ³	7.7 g/cm ³

Supplied forms:

- Pre-alloyed powder -140 mesh;
- Paste -100 mesh/ -140 mesh/ -170 mesh;
- Transfer tape (pre-alloyed powder with adhesives);