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SilverAlloy A-71Ti-Active

Introduction

Aufhauser SilverAlloy A-71Ti-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. This alloy has exceptional corrosion resistance due to the high silver content.

Applications

Brazing with Aufhauser SilverAlloy A-71Ti-Active provides a reliable method of bonding ceramics, graphite, diamond, tungsten carbide, copper, kovar, nickel, nickel alloys, carbon steels, stainless steels.

Nominal Composition, wt.%

Ag	Cu	Ti
71.0	27.0	2.0

Impurity limits, wt.%

Zn	Cd	Pb	P	C
< 0.001	< 0.001	< 0.002	< 0.002	< 0.005

Physical Properties

Parameter	In US units	In metric units
Solidus temperature	1436 °F	780 °C
Liquidus temperature	1481 °F	805 °C
Recommended brazing temperature	1582 – 1631 °F	861 – 888 °C
Recommended brazing atmosphere	10 ⁻⁵ mm Hg vacuum or inert gas	10 ⁻⁵ mm Hg vacuum or inert gas
Density	5.15 troy ounce/in ³	9.78 g/cm ³

Supplied forms: powder, paste.