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TitaniumAlloy T-70Ti-Active

Description

Aufhauser **TitaniumAlloy T-70Ti-Active** provides good wetting on titanium, titanium alloys, and super alloys. It is used in a high vacuum or dry argon atmosphere. Due to its high titanium content this alloy exhibits better corrosion resistance.

Application

Brazing of thermal transfer products (fin-plate and tube bundle heat exchangers).

Nominal Composition

Element	wt. %
Ti	69 - 71
Cu	14 - 16
Ni	14 - 16
Cd	0.001 max
Zn	0.001 max
P	0.002 max
Pb	0.002 max
C	0.005 max

Physical Properties

Liquidus temperature	1760°F (960°C)
Solidus temperature	1670°F (910°C)
Brazing temperature range	1800 - 1920°F (980 - 1050°C)
Density	2.8 toz/in ³
Electrical Conductivity (106/ohm•m)	2.6
Electrical Resistivity (10 ⁻⁹ ohm•m)	490
Thermal Conductivity (W/m•K)	15

Specification

AWS A5.8 B Ti-1

Available forms

Powder, paste, foil