



AUFHAUSER Ni74-Ti

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AUFHAUSER Ni74-Ti is a nickel-chromium-iron brazing alloy. It is used for brazing niobium, tantalum, molybdenum, ceramics, graphite, carbon-to-carbon composites.

APPLICATIONS

Medical instruments, oil refining systems, electronics, cooling systems of nuclear reactors, molybdenum pipes brazed to graphite blocks of nuclear reactor divertors, aerospace materials.

NOMINAL COMPOSITION, wt.%

Ni	Cr	Fe	Ti
73 - 74	16 - 17	8 - 9	0.3 - 0.5

PHYSICAL PROPERTIES

Solidus	2470°F (1355°C)
Liquidus	2588°F (1420°C)
Recommended brazing temperature	2606 - 2642°F (1430 - 1450°C)
Density	8.5 g/cm ³ (0.307 lb/in ³)
Coefficient of thermal expansion	13.48 x 10 ⁻⁶ m/m x°C ⁻¹ (7.4 x 10 ⁻⁶ in/in x °F ⁻¹)

AVAILABLE FORMS

Foil