

FONTARGEN A 842

High temperature gold based brazing alloy



EN ISO 17672:	Au 827
EN ISO 3677:	B-Au82Ni-950
AWS A 5.8:	BAu-4
AMS:	4787 A
Pratt & Whitney:	698

Composition, typical analysis (% w/w):

Au	Ni
82	18

Mechanical and physical properties:

Working temperature:	1000 °C
Melting range:	950 °C (Eutectic)
Specific gravity:	9.8 g/cm ³
Shear strength:	441 N/mm
Gap width:	0.04 - 0.08 mm
Oxidation resistance:	815 °C

Characteristics / Applications:

The main application area of this alloy is the beam engine construction. It is used for joints of alloyed steel and nickel alloys where high strength as well as high temperature corrosion resistance is demanded. Suitable for the following materials: Fe/Cr, Mo/W, Ni, Ni/Cu, Ni/Fe, Fe/Co, steel, kovar and vacon.

Heat sources:

Inert gas furnace:	Oxygen (dew point: -51 °C) Argon (dew point: -63 °C)
Vacuum furnace:	Vacuum 0.15 Pa (1 x 10 ⁻³ Torr)

Availability:

Bare rods	Coated rods	Wire	Foil	Preforms	Powder	Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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