

Specifications:

AMS 4787
PWA 698
UNS P00827
AWS A5.8 BAu-4/BVAu-4

Properties:

Color: Nickel Gray
Melting Point: 1742 °F
Density (TOz/in³): 8.41
Electrical Conductivity (x10⁶/
(ohm*m)): 3.70

Properties (cont):

Electrical Resistivity (x10⁻⁹ ohm*m): 274
Elongation (%): 14
CTE (x10⁻⁶ / °C): 17.5
Thermal Conductivity (W/(m*K)): 28
Yield Strength (MPa): 686
Tensile Strength (MPa): 792

Description:

WT BAu-4 can be used on any of the common ferrous, non-ferrous and super alloys. It wets a wide range of high temperature iron and nickel base alloys. It doesn't alloy excessively with these materials nor did produce the severe intergranular penetration normally associated with these nickel base brazing alloys containing boron. Typical applications include brazing of electron tubes, vacuum tubes, brazing of fuel line assemblies and aero-engine components.

Available in multiple sizes and diameters.

Typical Chemical Composition (Wt%)

Au	Ni	Cd	P	Pb	C	Other volatile elements each	Volatile elements total	Total non-volatile elements (Grade 1)	Total non-volatile elements (Grade 2)	Zn
82.0 ± 0.5	BAL	0.001	0.002	0.002	0.005	0.002	0.01	0.01	0.05	0.001

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.