

PRODUCT OVERVIEW

PMET 972 is a cobalt based superalloy alloyed mainly with chromium, nickel, and tungsten. PMET 972 has excellent strength and oxidation resistance at temperatures up to 2000F. High amounts of chromium in the deposit give the alloy superb corrosion resistance while the additions of tungsten allows the alloy to retain its strength at high temperatures. This coupled with good weldability makes this alloy ideal for turbine blade repair.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Density	0.320 lb/in ³
⇒ Melting point:	2550 F
⇒ Machineability:	Good
⇒ Oxidation Resistance:	Great
⇒ Corrosion Resistance:	Good

APPLICATION

- ⇒ Gas turbine engines
- ⇒ Blade tip repair

NOMINAL CHEMICAL COMPOSITION (wt%)

Co	Cr	Ni	W	Al	Hf	C	Ti	Y
BAL	20.0	15.0	9.0	4.0	1.0	<1.0	<1.0	<1.0

STANDARD SIZES & PACKAGING:

Diameter	Packaging
0.030" (0.8 mm)	18" and 36" Cut Lengths
0.035" (0.9 mm)	18" and 36" Cut Lengths
0.045" (1.2 mm)	18" and 36" Cut Lengths
0.062" (1.6 mm)	18" and 36" Cut Lengths