

## PRODUCT OVERVIEW

**Pmet 880** is a nickel based superalloy alloyed primarily with chromium and cobalt. Pmet 880 is coveted mainly due to its ability to keep excellent mechanical properties at high temperatures. Pmet 880 can be age hardened due to the additions of aluminum and titanium and displays excellent creep and oxidation resistance.

## TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Density	0.300 lb/in <sup>3</sup>
⇒ Melting Range:	2250-2400 F
⇒ Machineability:	Good
⇒ Oxidation Resistance:	Excellent
⇒ Corrosion Resistance:	Great

## APPLICATION

- ⇒ Gas Turbine Blades
- ⇒ Gas Turbine Vanes

## NOMINAL CHEMICAL COMPOSITION (wt%)

Ni	Co	Cr	Ti	Mo	W	Al	C
BAL	10.0	14.0	5.0	4.0	4.0	3.0	<1.0

## MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
160	1105	120	830	7

## STANDARD SIZES:

### Diameter

0.030" (0.8 mm)  
 0.035" (0.9 mm)  
 0.045" (1.2 mm)