

## PRODUCT OVERVIEW

**PMET 863** is a nickel based superalloy alloyed primarily with chromium, cobalt, and molybdenum. PMET 863 also has additions of aluminum and titanium which make the alloy age-hardenable while still exhibiting great formability and weldability characteristics. PMET 863 also has exceptional oxidation resistance and can be used in applications up to 1650F.

## TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Density: 0.302 lb/in<sup>3</sup>
- ⇒ Melting Range: 2372-2470 F
- ⇒ Oxidation Resistance: Great
- ⇒ Corrosion Resistance: Good

## APPLICATION

- ⇒ Gas Turbine Engines
- ⇒ Transition Liners
- ⇒ Welding GTD222 castings

## SPECIFICATION

AMS 5966

## NOMINAL CHEMICAL COMPOSITION (wt%)

Ni	Co	Cr	Mo	Ti	Fe	Mn	Al
BAL	20.0	20.0	6.0	2.0	1.0	1.0	0.4

## MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
148	1020	85	586	45

## STANDARD SIZES & PACKAGING:

### Diameter

- 0.035" (0.9 mm)
- 0.045" (1.2 mm)
- 0.062" (1.6 mm)
- 0.093" (2.4 mm)