

PRODUCT OVERVIEW

Pmet 988 is a cobalt based superalloy coveted for its oxidation resistance and strength at temperatures up to 2000F. This alloy exhibits good ductility after exposure to elevated temperatures up to 1600F. Pmet 988 contains ~15 wt% tungsten which aids in the strengthening of the deposit at high temperatures. It also contains high amounts of chromium with an addition of lanthanum which allows for the alloy to have outstanding corrosion, spalling, and oxidation resistance.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Density: 0.330 lb/in³
- ⇒ Melting Range: 2375-2575 F
- ⇒ Oxidation Resistance: Excellent
- ⇒ Corrosion Resistance: Excellent
- ⇒ Spalling Resistance: Great

APPLICATION

- ⇒ Gas turbine engines
- ⇒ Afterburner lines
- ⇒ Flame-holders
- ⇒ Exhaust frames
- ⇒ Combustors

SPECIFICATION

AMS 5801

NOMINAL CHEMICAL COMPOSITION (wt%)

Co	Cr	Ni	W	Fe	Si	C	La
BAL	22.0	22.0	15.0	3.0	0.4	0.1	0.06

MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
139	995	67	446	53

STANDARD SIZES:

Diameter

- 0.025" (0.6 mm)
- 0.031" (0.8 mm)
- 0.035" (0.9 mm)
- 0.045" (1.2 mm)
- 0.062" (1.6 mm)