

PRODUCT OVERVIEW

PMET 931 is a cobalt based superalloy alloyed mainly with chromium and nickel. PMET 931 also has an addition of tungsten for high temperature strength. PMET 931 has great mechanical properties at temperatures up to 1800F and has fantastic oxidation and galling resistance. This alloy is also resistant to a myriad of oxidizing and reducing gases as well as nitric and phosphoric acid.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Density	0.311 lb/in ³
⇒ Melting point:	2500 F
⇒ Machineability:	Good
⇒ Oxidation Resistance:	Excellent
⇒ Corrosion Resistance:	Great
⇒ Galling Resistance:	Excellent
⇒ Hardness:	20-35 HRC

APPLICATION

- ⇒ Gas turbine engines
- ⇒ Hot gas erosion sections

NOMINAL CHEMICAL COMPOSITION (wt%)

Co	Cr	Ni	W	C	Mn	Si
BAL	26.0	11.0	8.0	<1.0	<1.0	<1.0

STANDARD SIZES:

Diameter

0.030"	(0.8 mm)
0.035"	(0.9 mm)
0.045"	(1.2 mm)
0.062"	(1.6 mm)
0.093"	(2.4 mm)