

PRODUCT OVERVIEW

PMET 994 is a cobalt based superalloy alloyed mainly with chromium, tungsten, and nickel. PMET 994 is coveted mainly for its stability and strength at temperatures up to 2100F. This alloy is mainly used for hardfacing turbine blades due to its fantastic wear and oxidation properties at high temperatures.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Density	0.327 lb/in ³
⇒ Melting Point:	2325 F
⇒ Corrosion Resistance:	Good
⇒ Oxidation Resistance:	Good
⇒ Erosion Resistance:	Good
⇒ Abrasion Resistance:	Good
⇒ Impact Resistance:	Fair
⇒ Typical Hardness:	47-54 HRC

APPLICATION

- ⇒ Gas turbine engines
- ⇒ Hardfacing interlock surfaces

NOMINAL CHEMICAL COMPOSITION (wt%)

Co	Cr	W	Ni	C	V	Fe	Mn	Si	Mo	B
BAL	28.0	20.0	5.0	1.0	1.0	<3.0	<1.0	<1.0	<0.5	<0.1

STANDARD SIZES:

Diameter

0.025"	(0.7 mm)
0.030"	(0.8 mm)
0.035"	(0.9 mm)
0.040"	(1.0 mm)
0.045"	(1.2 mm)
0.062"	(1.6 mm)
0.093"	(2.4 mm)