

PRODUCT OVERVIEW

PMET 90-10 is a tungsten carbide-nickel powder specifically designed for HVOF systems. It produces a hard, abrasive and corrosion resistant coating. High chrome like finishes can be obtained by typical grinding or lapping techniques. PMET 90-10 is ideal for use in applications where improved corrosion resistance versus WC-Co is required. Successful applications include oil field parts, pump components and a wide variety of other high wear or corrosion applications.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRC 68
- ⇒ Bond Strength: 10,000+ psi
- ⇒ Powder Coverage: 0.2oz/ft² / .001" thickness

* powder coverage can vary depending on spray device and parameters used.

APPLICATION

- ⇒ Fan blades
- ⇒ Pump components
- ⇒ Dies
- ⇒ Valve seats
- ⇒ Oil field apparatus
- ⇒ Other erosion, abrasion and sliding wear protection

HAZZARDS:

Observe safe spraying practices. See Polymet material safety data sheet for details.

POWDER MORPHOLOGY

Spherical, agglomerated and sintered

NOMINAL CHEMICAL COMPOSITION (wt%)

WC	Ni
90.0	10.0

RECOMMENDED SPRAY PARAMETERS:

Parameters vary depending on equipment used. Contact your equipment manufacturer for optimum spray parameters:

STANDARD SIZES & PACKAGING:

Particle Size	Packaging	Part Number
-45/+15 microns	10 lb bottles	9010POWDER01