

PRODUCT OVERVIEW

PMET 83-17 is a tungsten carbide cobalt powder specifically designed for HVOF systems. It produces a hard, abrasive and corrosion resistant coating, with a service environment up to 900° F (482° C). High Chrome like finishes can be obtained by typical grinding or lapping techniques. PMET 83-17 is ideal for use in a wide variety of high wear applications including erosion, abrasion and sliding wear.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRC 65 (1200 DPH)
- ⇒ Bond Strength: 10,000+ psi
- ⇒ Powder Coverage: 0.16 oz/ft² / .001" thickness (31.6 kg/sq-m per mm)

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

HAZZARDS:

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

APPLICATION

- ⇒ Oil field apparatus
- ⇒ Chrome plate replacement
- ⇒ ID fan blades
- ⇒ Extrusion Dies
- ⇒ Other erosion, abrasion and sliding wear application

POWDER MORPHOLOGY

Spherical, agglomerated and sintered

NOMINAL CHEMICAL COMPOSITION (wt%)

WC	Co
83.0	17.0

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	8317POWDER01