PMET 86-10-4

WC-10Co-4Cr HVOF Powder

September, 2015

PRODUCT OVERVIEW

PMET 86-10-4 is a tungsten carbide-cobalt-chrome powder specifically designed for HVOF systems. It produces a hard, abrasive and corrosion resistant coating, with a service environment up to 850° F (450° C). High chrome like finishes can be obtained by typical grinding or lapping techniques. PMET 86-10-4 is ideal for use in a wide variety of erosive and abrasive wear applications and corrosive environments. It should be used where added corrosion protection is required versus 88WC-12Co coatings. It has proven to be an excellent alternative to hard chromium plating.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Typical Hardness: **HRC 70**

10,000+ psi ⇒ Bond Strength:

⇒ Powder Coverage: $0.25 \text{ oz/ft}^2 / .001$ "

thickness

HAZZARDS:

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

APPLICATION

- Hard chrome replacement
- ⇒ Fan blades
- Compressor shafts ⇒ Ball and gate valves
- ⇒ Oil field apparatus
- ⇒ Other erosion and abrasion wear applications

POWDER MORPHOLOGY

Spherical, agglomerated and sintered

NOMINAL CHEMICAL COMPOSITION (wt%)

WC Co Cr 86.0 10.0 4.0

-45/+15 microns

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 10 lb bottles

7397 Union Centre Blvd. West Chester, OH 45014 / Phone: 513-874-3586 / Fax: 513-874-2880

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E-mail: sales@polymet.us

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