

## PRODUCT OVERVIEW

PMET 73-20-7 is a tungsten carbide – chromium- nickel powder specifically designed for HVOF systems. It produces a hard, abrasive and corrosion resistant coating, with a service environment up to 1400° F (760° C). High chrome like finishes can be obtained by typical grinding or lapping techniques. PMET 73-20-7 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 WC-Co coatings.

## TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRC 66
- ⇒ Bond Strength: 10,000+ psi
- ⇒ Powder Coverage: 0.24lb/ft<sup>2</sup> per .001" thk  
0.10 kg/m<sup>2</sup> per mm thk

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

## APPLICATION

- ⇒ Oil field applications
- ⇒ Chemical processing equipment
- ⇒ Extrusion screws
- ⇒ Other erosion and abrasion wear applications

## HAZARDS:

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

## POWDER MORPHOLOGY

Spherical, agglomerated and sintered

## NOMINAL CHEMICAL COMPOSITION (wt%)

WC	Cr	Ni
73.0	20.0	7.0

## 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	73207POWDER01