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.

**PRODUCT OVERVIEW**

**TYPICAL DEPOSIT CHARACTERISTICS:**
- Typical Hardness: HRC 70
- Bond Strength: 10,000+ psi
- Powder Coverage: 0.25 oz/ft²/.001” thickness

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

**HAZARDS:**
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%)**

<table>
<thead>
<tr>
<th>WC</th>
<th>Co</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>86.0</td>
<td>10.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**RECOMMENDED SPRAY PARAMETERS:**
Parameters vary depending on equipment used. Contact your equipment manufacturer for optimum spray parameters:

**STANDARD SIZES & PACKAGING:**

<table>
<thead>
<tr>
<th>Particle Size</th>
<th>Packaging</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>-45/+15 microns</td>
<td>10 lb bottles</td>
<td>86104POWDER01</td>
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