

### **General Description:**

Tungsten Carbide is typically considered when Chromium Carbide HVOF is not useful due to corrosion or when the customer desires a harder coating. Field experience and erosion testing have indicated the Chromium Carbide and the Tungsten Carbide HVOF coatings to be very similar in wear resistance. In general, Tungsten Carbide with cobalt binder is preferred. For applications that cobalt binder is not desired, nickel binder can be used as a replacement. Do not use nickel binder for applications involving sulfides.

### **Application Method:**

High Velocity, Oxygen Fueled

### **Typical Chemistry:**

Nickel	10%
Tungsten Carbide	90%

### **Typical Mechanical Properties:**

Hardness	850 HV min.
Finished Thickness	0.003" to 0.008"
Porosity	2% maximum
Useful Temperature	up to 950F (510C)
Bond Strength	> 10,000 psi



### **Confidentiality Note:**

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