

File: 1.9.2.2P-1342V  
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## **POWDER CHARACTERISTICS**

### **TAFE 1342V TUNGSTEN CARBIDE - 12% COBALT**

#### **Summary:**

This powder is made exclusively for thermal spraying. Spraying with TAFE 1342V results in a dense, hard and tough coating which is suited for many applications. These applications include sliding wear erosion, impingement, abrasion and fretting wear.

**CAUTION:** All TAFE powders are produced to exacting specifications and have been optimized for use in the JP-5000 HP/HVOF and PlazJet plasma spray processes. Use of other powders may not produce the properties listed in this Technical Data Bulletin.

#### **Applications:**

##### **Aircraft Engines**

Specific aircraft parts on which WC - 12 Co is used are:

- Blades
  - midspan supports
  - fan and compressor blades
  - trunions on variable compressor vanes
- Main power takeoff gear - bearing surface area
- Accessory parts

Conforms to Coating Specification  
GE - B50TF80

Powder Specification  
B50TF27 Class B

##### **Commercial Applications**

- Oil field apparatus, especially high wear areas on "down hole" equipment
- Wire drawing equipment including "blocks", capstans, and pulleys
- Induced draft fans in power generation applications
- Repair of extrusion dies
- Repair of industrial pulleys
- Repair of gas transmission equipment
- Repair of plastic granulation equipment

Consult your TAFE coatings application engineer for help in solving your specific coating requirements.

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**Composition:**

		<u>% Weight</u>
Nominal Composition	Tungsten Carbide	88
	Cobalt	12
	Other	0

**Particle Size:** -325/D

**Hazards:**

Observe normal spraying practices. Respiratory and hearing protection is advised. For general guidelines see AWS Publication C2.1-73, and AWS TSS-85. Thermal spraying is a safe process when performed in accordance with proper safety measures.

**For further information** on HVOF coatings, equipment and supplies, as well as other thermal spray processes and custom automated systems, contact:

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