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 Original Issue

POWDER CHARACTERISTICS**TAFE 1343VM TUNGSTEN CARBIDE - 17% COBALT COATINGS****Summary:**

This powder is made exclusively for thermal spraying. TAFE 1343VM coatings result in a dense, hard and tough coating which is suited for many applications. These applications include sliding wear erosion, impingement, abrasion and fretting wear. With developed spray parameters through the JP-5000 HP/HVOF system, coatings have been applied to thicknesses beyond 0.25" (6.4 mm).

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:**Commercial:**

- 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 gas transmission equipment
- Repair of plastic granulation screws and equipment
- Micronizer/Pulverizer liners
- Brick Molds
- Glass Industry
- Chrome plating replacement

Aircraft Engines:

Specific aircraft parts which WC - 17 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
- Chrome plating replacement (military)

Conforms to Coating Specification:

PWA - 36206
 GE - F50TF71

Powder Specification:

PWA 36331
 B50TF167A
 RR - 9507/1
 Snecma - DMR 33-019

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

Composition:

		<u>% Weight</u>
Nominal Composition	Tungsten Carbide	83
	Cobalt	17
	Other	0

Particle Size: -325 mesh/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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