Technical Data

Bulletin

Praxair Surface Technologies
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Praxair Surface Technologies
TAFA Incorporated
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POWDER CHARACTERISTICS

TAFA®1350VM TUNGSTEN CARBIDE - 10% COBALT - 4% CHROMIUM

Summary:

This powder is made exclusively for thermal spraying. Spraying with TAFA 1350VM 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. Coatings of TAFA 1350VM show excellent wear resistance in water-based solutions due to the addition of chromium. Use TAFA 1350VM on applications where standard tungsten carbides are effected by corrosion.

CAUTION: All TAFA 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:

This material when used, with TAFA's JP-5000 HP/HVOF system, does not exhibit the thickness limitations of other thermal spray processes. Coating thicknesses of up to 0.125" (3.18 mm) are sprayed on a variety of applications, including:

- Oil field apparatus
  - Gate and Ball valves
  - High wear areas on "down hole" equipment
- Compressor shafts
- Hydraulic cylinders
- Induced draft fans in power generation applications
- Paper rolls
- Repair of gas transmission equipment
- Repair of plastic granulation screws and equipment

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