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## **POWDER CHARACTERISTICS**

### **TAF 1376T PREMIUM CHROME CARBIDE - 25% NICHROME**

#### **Summary:**

This powder is made exclusively for thermal spraying. Spraying with TAF 1376T powder results in a dense, well bonded and very hard coating which is well suited for fretting or abrasive wear and hard surfacing. The coating is also resistant to corrosion, heat and oxidation in temperatures up to 1500°F (815°C). TAF 1376T is also good for some nuclear applications (such as fuel rods) where tungsten carbide/cobalt cannot be used.

**CAUTION:** All TAF 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:**

- Petrochemical; Valve stems
- Hard Chrome Replacement
- Turbine components which include:
  - Air seal rings
  - Baffle dampers
  - Inner nozzle supports
- Fuel rod mandrels
- Hot crushing rolls
- Other fretting wear applications in environment temperatures up to 1500°F

Conforms to the following specifications:

AMS 7875  
GE B50TF137CLA  
PWA 1305  
Rolls Royce 9507-17  
DMR 33,005

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

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**Composition:**

	<u>Weight %</u>
Chromium Carbide	75
Nickel	20
Chromium	5

**Particle Size:**

-270/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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