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POWDER CHARACTERISTICS

TAF[®] 1256F COBALT-CHROMIUM-TUNGSTEN-IRON-NICKEL (No. 6)

Summary:

This powder is made exclusively for thermal spraying. Spraying with TAF 1256F powder results in extremely dense, low oxide coatings. TAF 1256F is a cobalt-chromium alloy recommended for applications where resistance to fretting, hard surface contact and particle erosion is required even at temperatures to 1500°F (815°C).

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:

- Abrasive wear
- Pump parts such as:
 - shafts
 - sleeves
 - bearing seals
 - impellers
 - housings
- Valves, Ball, Gate and Butterfly
- Exhaust valves and seats
- Conveyer screws
- Erosion shields
- Fuel rod mandrels
- Hot crushing rolls
- Agitator bearings and paddles
- Knife blades
- Scraper knives
- Fan shaft bearing/seals
- Wear rings
- Paper rolls

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

Typical Composition:

| | <u>Weight %</u> |
|----------|-----------------|
| Cobalt | Remainder |
| Chromium | 28 |
| Tungsten | 4 |
| Iron | 3 |
| Nickel | 3 |

Particle Size

-270 mesh/D

TAFA is committed to a continuing program of product improvement. Product specifications are subject to change with notice. TAFA warrants that the equipment and powder is furnished free of defects in material and workmanship. No other warranty is expressed or implied.

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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