

File: 1.9.2.2P-1236F  
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## **POWDER CHARACTERISTICS** **TAFE 1236F 316L STAINLESS STEEL**

### **Summary:**

This powder is made exclusively for thermal spraying. Spraying with TAFE 1236F result in a dense, smooth coating that can be finished to a bright mirror-like surface that resists corrosion, cavitation and particle erosion at temperatures below 1000°F (540°C). It can also be used to build up worn parts such as print rolls and to salvage mis-machined parts.

**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:**

#### *Corrosion:*

- Rolls in the printing industry
- Pump plungers
- Shafts
- Seal Rings
- Impellers
- Hydraulic rams

#### *Cavitation:*

- Wear rings on hydraulic turbines
- Water turbine buckets and nozzles
- Diesel engine cylinder liners
- Pumps

#### *Particle Erosion, Low Temperature*

- Exhaust fans
- Hydroelectric valves
- Cyclone dust collectors
- Pump valve plugs and seats

**Composition:**

	<u>Weight %</u>
Nickel	12
Chromium	17
Molybdenum	2.5
Iron	Balance

**Particle Size**

-270 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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