

File: 1.9.2.2P-1166F  
Issue: K10309  
Supersedes: J10128

## **POWDER CHARACTERISTICS** **TAF 1166F NICKEL**

### **Summary:**

The TAF 1166F powder is made exclusively for thermal spraying. Spraying with TAF 1166F produces excellent high temperature coatings. Porosity and oxide content are almost nonexistent. These coatings are also recommended for salvage and build-up of nickel and nickel alloy parts.

**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:**

This material when used, with TAF's JP-5000 HP/HVOF system, does not exhibit the thickness limitations of other thermal spray processes. Coating thicknesses of up to 0.250" (6.4 mm) are sprayed on a variety of applications, including:

- Rebuild and salvage of nickel and nickel alloy parts
- Dimensional restoration
- Pump rebuilds
- Various aircraft parts
- Corrosion Protection

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

**Composition:**

	<u>Weight %</u>
Nickel	99.3+

**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:

TAFA Incorporated  
146 Pembroke Road, Concord, NH 03301  
Phone (603) 224-9585  
Fax (603) 225-4342